JVC

CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

KD-LH1101

Detachable

COMPACT
disc
DIGITAL AUDIO
TEXT

R·D·S
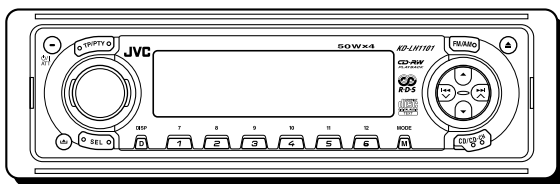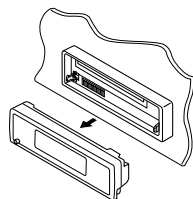
CD-RW
PLAYBACK

- This unit is equipped with the display demonstration. To cancel it, see page 8.
- Dieses Gerät ist mit einer Demonstrationsfunktion für das Display ausgestattet. Auf Seite 8 wird beschrieben, wie Sie diese Demonstrationsfunktion deaktivieren können.
- Cet appareil est équipé d'une fonction de démonstration des affichages. Pour l'annuler, référez-vous à la page 8.
- Dit toestel heeft een display-demonstratiefunctie. Zie bladzijde 8 voor het annuleren van deze functie.

For installation and connections, refer to the separate manual.
Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.
Pour l'installation et les raccordements, se référer au manuel séparé.
Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

INSTRUCTIONS
BEDIENUNGSANLEITUNG
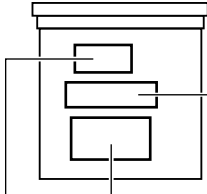*MANUEL D'INSTRUCTIONS*
GEBRUIKSAANWIJZING

GET0152-001A
[E/EX]

Position And Reproduction Of Labels

Bottom panel of the main unit

CAUTION: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL:** Usynlig laser-stråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsæt-telse for stråling. (d)	**VARNING:** Osynlig laser-strålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO:** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättö-mälle lasersäteilylle. Älä katso säteeseen. (f)

Name/Rating plate

CLASS 1
LASER PRODUCT

Caution:
This product contains a laser component of higher laser class than Class 1.

IMPORTANT FOR LASER PRODUCTS

Precautions:
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation and is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Caution:
If the temperature inside the car is below 0°C, the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. ▦▦ (LOW TEMP.) indicator appears on the display. When the temperature increases, the operating temperature is resumed, and these functions will start working again.


CAUTION on Volume Setting:
Discs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a disc and adjust it as required during playback.

Note:
For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or a similar tool.
This will reset the built-in microcomputer.
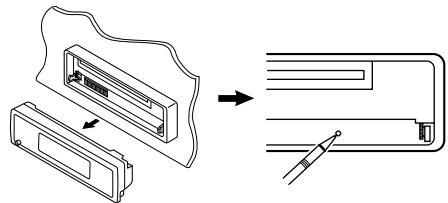
Note:
Your preset adjustments—such as preset channels or sound adjustments—will also be erased.

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

CONTENTS

BEFORE USE
For safety....
• *Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.*
• *Stop the car before performing any complicated operations.*

Temperature inside the car....
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

◖ **LOCATION OF THE BUTTONS**

Control panel
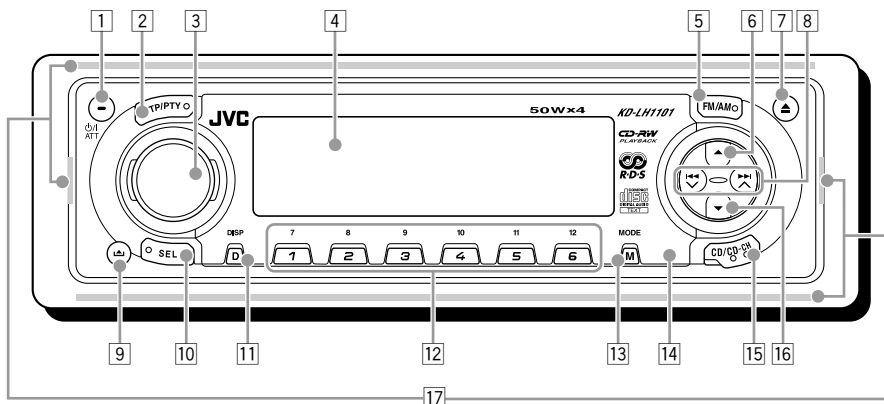
1 Ꮷ/I/ATT (standby/on/attenuator) button
2 TP/PTY (traffic programme/programme type) button
3 Control dial
4 Display window
5 FM/AM button
6 ▲ (up) button
7 ⏏ (eject) button
8 I◀◀ ∨/▶▶I ∧ buttons
9 ⊿ (control panel release) button
10 SEL (select) button
11 D (DISP: display) button
12 Number buttons
13 M (MODE) button
14 Remote sensor
15 CD/CD-CH (CD changer) button
16 ▼ (down) button
17 Trim illumination

Illumination Navigation for easy operations

If you press M (MODE) or SEL (select), the display and some controls (such as the number buttons, ▶▶I ∧/I◀◀ ∨, ▲/▼, and control dial) enter the corresponding control mode, then the controls start flashing to lead you to the next operational steps. (Illumination Navigation)

• The display show how these buttons function during this period.

Ex.: When you press number button 1 after pressing M (MODE), to operate the FM tuner.

Time countdown indicator
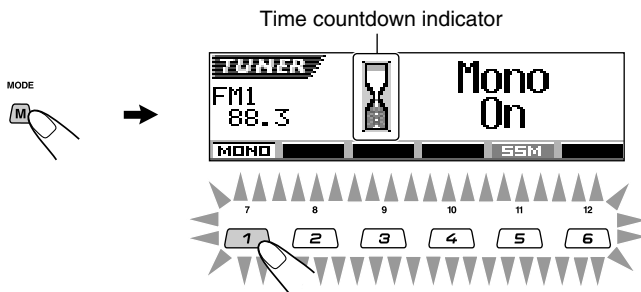
To use these controls for original functions again, wait until the controls stop flashing without using these controls.

• Pressing M (MODE) again also restores original functions. However, pressing SEL (select) makes the unit into a different mode.

Remote controller
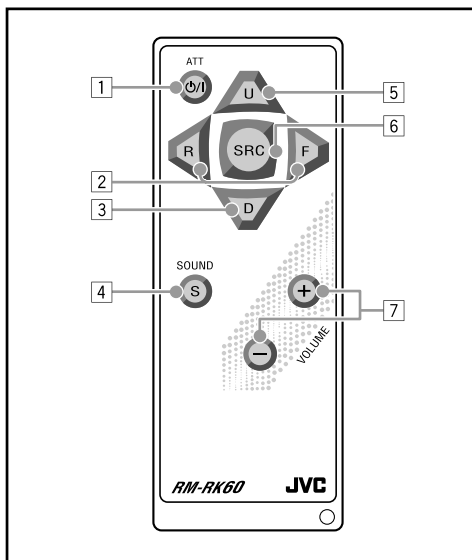
1 • Turns on the unit if pressed when the unit is turned off.
  • Turns off the unit if pressed and held for a few seconds.
  • Drops the volume level in a moment if pressed briefly.
    Press again to resume the volume.

2 • Searches for stations while listening to the radio.
  • Selects services while listening to the DAB tuner if pressed briefly.
  • Searches for ensembles while listening to the DAB tuner if pressed for more than one second.
  • Fast-forwards or reverses the track/file if pressed and held while listening to a disc.
  • Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) tracks/files if pressed briefly while listening to a disc.

3 • Selects the preset stations while listening to the radio (or the DAB tuner).
    Each time you press the button, the preset station (or service) number increases, and the selected station (or service) is tuned in.
  • While playing an MP3 disc on an MP3-compatible CD changer;
    – Skips to the previous disc if pressed briefly.
    – Skips to the previous folder if pressed and held.
    Note: *While playing a CD on a CD changer, this always skips to the previous disc.*

4 Selects the sound mode (iEQ: intelligent equalizer).
  Each time you press the button, the sound mode (iEQ) changes.

5 • Selects the band while listening to the radio (or the DAB tuner).
    Each time you press the button, the band changes.
  • While playing an MP3 disc on an MP3-compatible CD changer;
    – Skips to the next disc if pressed briefly.
    – Skips to the next folder if pressed and held.
    Note: *While playing a CD on a CD changer, this always skips to the next disc.*

6 Selects the source.
  Each time you press the button, the source changes.

7 Functions the same as the control dial on the main unit.
  Note: *These buttons do not function for the preferred setting mode adjustment.*

5

Preparing the remote controller

Before using the remote controller:
• Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
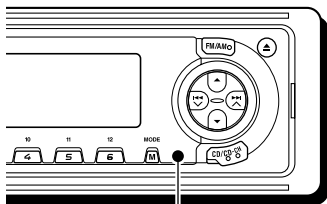
Remote sensor

• Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.

1. Remove the battery holder.
   1) Push out the battery holder in the direction indicated by the arrow using a ball-point pen or a similar tool.
   2) Remove the battery holder.

(back side)
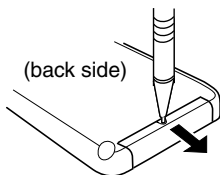
2. Place the battery.
   Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.
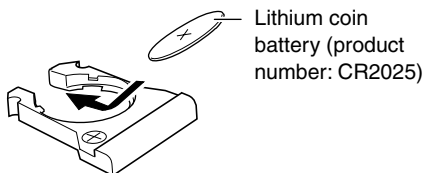
Lithium coin battery (product number: CR2025)

3. Return the battery holder.
   Insert again the battery holder by pushing it until you hear a clicking sound.

(back side)
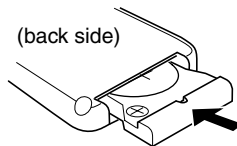
WARNING:

• *Store the battery in a place where children cannot reach.*
  If a child accidentally swallows the battery, consult a doctor immediately.
• *Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire.*
  Doing any of these things may cause the battery to give off heat, crack, or start a fire.
• *Do not leave the battery with other metallic materials.*
  Doing this may cause the battery to give off heat, crack, or start a fire.
• *When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack, or start a fire.*
• *Do not poke the battery with tweezers or similar tools.*
  Doing this may cause the battery to give off heat, crack, or start a fire.

CAUTION:
DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.

KD-LH1101 is equipped with the steering wheel remote control function.
If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller.
• See the Installation/Connection Manual (separate volume) for connection to utilize this function.
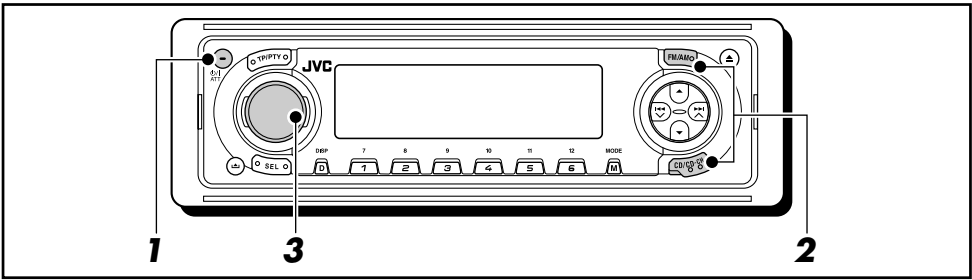
Turning on the power

1 Turn on the power.

Note on One-Touch Operation:
When you select a source in step **2** *below, the power automatically comes on. You do not have to press this button to turn on the power.*

2 Select the source.

To operate the tuner (FM or AM),
    see pages 10 – 21.
To play a CD,
    see pages 22 – 26.
To operate the CD changer,
    see pages 40 – 46.
To operate the external component
    (LINE IN), see page 47.
To operate the DAB tuner,
    see pages 48 – 52.

3 Adjust the volume.
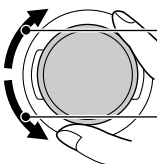
To increase the volume

To decrease the volume

Volume level appears.

Current sound mode (iEQ)
(see page 28)

4 Adjust the sound as you want. (See pages 27 – 29.)

Note:
While playing a source, you can also show the level meter on the display. For details, see "Activating the level meter" on page 30.

To drop the volume in a moment

Press ⏻/I/ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.
• If you turn the control dial, you can also restore the sound.

To turn off the power

Press and hold ⏻/I/ATT for more than one second.
• **If you turn off the power while listening to a disc,** disc play will start from where playback has been stopped previously, next time you turn on the power.

NOTICE:
The illustrations of the display used in this manual are mainly of the initial setting when shipped from the factory. If you have changed the display patterns or some PSM items, the actual displays you see will be different.

ENGLISH

7
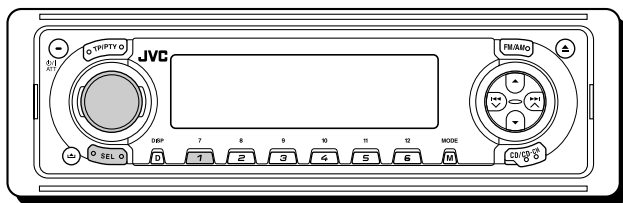
Canceling the display demonstration

When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

• It is recommended to cancel the demonstration before you use the unit for the first time.

To cancel the display demonstration, follow the procedure below:

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**

The next-step-operation buttons start flashing.

2 **Press number button 1 to select "MOVIE"—Movie category of the PSM settings.**

The "Graphics" setting screen appears on the display.

3 **Select "Off."**
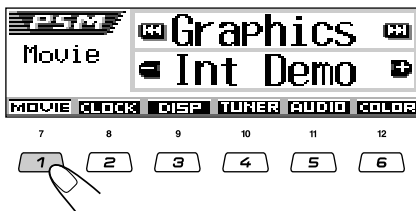
All Demo ←→ Int Demo
→ Off ←
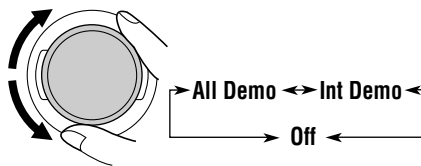
4 **Finish the setting.**

To activate the display demonstration, repeat the same procedure and select "Int Demo" or "All Demo" in step **3**.

• For more details, see "To set the movie demonstration—Graphics" on page 33.
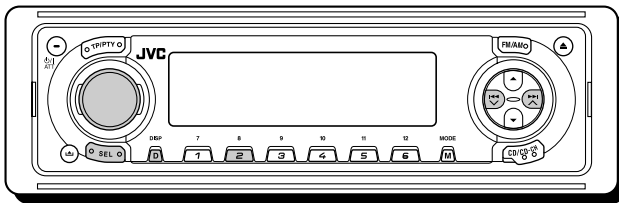
Setting the clock

You can also set the clock system to either 24 hours or 12 hours.

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**

The next-step-operation buttons start flashing.

2 **Press number button 2 to select "CLOCK"—Clock category of the PSM settings.**

The "Clock Hr" (hour) setting screen appears on the display.
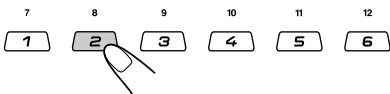
3 **Adjust the hour.**
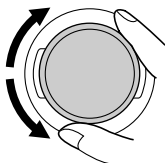
4 **Set the minute.**
   1 Select "Clock Min" (minute).
   2 Adjust the minute.
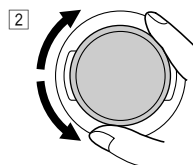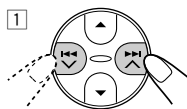
5 **Set the clock system.**
   1 Select "24H/12H."
   2 Select "24Hours" or "12Hours."
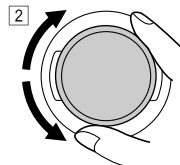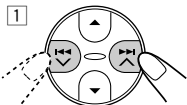
6 **Finish the setting.**

To check the current clock time when the unit is turned off, press D (DISP).

The power turns on and the clock time is shown for 5 seconds, then the power turns off.

9

FM AM **RADIO OPERATIONS**
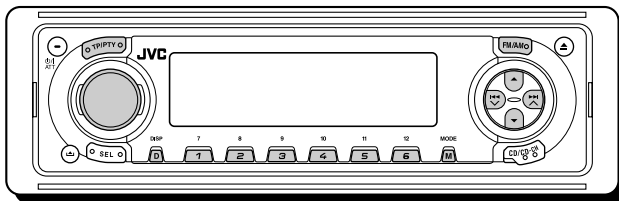
Listening to the radio

You can use either automatic searching or manual searching to tune in to a particular station.

Searching a station automatically: Auto search

1 Select the band (FM1 – 3, AM).

FM/AM   Each time you press the button, the band changes as follows:

→ FM1 → FM2 → FM3 → AM ¬

Selected band appears.

TUNER ON AIR
FM1
88.3
STEREO
FLAT
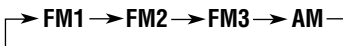
Lights up when receiving an FM stereo broadcast with sufficient signal strength.

Note:
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2 Start searching a station.
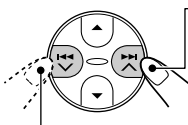
To search stations of higher frequencies

To search stations of lower frequencies

When a station is received, searching stops.

To stop searching before a station is received, press the same button you have pressed for searching.

Searching a station manually: Manual search

1 Select the band (FM1 – 3, AM).
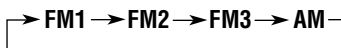
FM/AM   Each time you press the button, the band changes as follows:

→ FM1 → FM2 → FM3 → AM ¬

Note:
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2 Press and hold ►►I ∧ or I◄◄ ∨ until "Manual Search" starts flashing on the display.

TUNER Manual Search
FM1
92.5
STEREO
FLAT
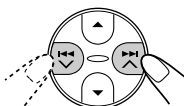
3 Tune in to a station you want while "Manual Search" is flashing.
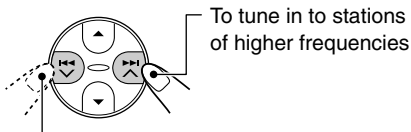
To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

• If you release your finger from the button, the manual mode automatically turns off after 5 seconds.
• If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz for AM—MW/LW) until you release the button.

When an FM stereo broadcast is hard to receive:

1 Press M (MODE) while listening to an FM stereo broadcast.

MODE "Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press number button 1 to select "Mono On" while "Mode" is still on the display.
Each time you press the button, "Mono On" and "Mono Off" appears alternately.

TUNER		Mono
FM1 88.3		On
MONO	PTY	SSM

7 8 9 10 11 12
1 2 3 4 5 6

After about 5 seconds

The display returns to the source indication screen.

TUNER	🕐	ON AIR
FM1 88.3		
MONO FLAT		

MONO indicator lights up.

If the sound quality decreases and the stereo effect is lost while listening to an FM station

In some areas, adjacent stations may interfere with each other. If this interference occurs, this unit can automatically reduce this interference noise (the initial setting when shipped from the factory). However, in this case, the sound quality will be degraded and the stereo effect will also be lost.
If you do not want to degrade the sound quality and to lose the stereo effect, rather than to eliminate the interference noise, see "To change the FM tuner selectivity—IF Filter" on page 34.

Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.
• Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
• Manual preset of both FM and AM stations

FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2, and FM3).

1 Select the FM band (FM1 – 3) you want to store FM stations into.

FM/AM Each time you press the button, the band changes as follows:

→ FM1 → FM2 → FM3 → AM
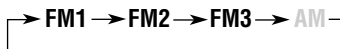
2 Start automatic preset.

☐ Press M (MODE).

MODE
"Mode" appears on the display.
The next-step-operation
buttons start flashing.

② Press and hold number button 5, while
"Mode" is still on the display.

```
TUNER          Mode
FM1
88.3
MONO      PTY        SSM
```

```
7    8    9    10   11   12
[1]  [2]  [3]  [4]  [5]  [6]
```

```
TUNER          ON AIR
FM1
-SSM-
........ FLAT
```
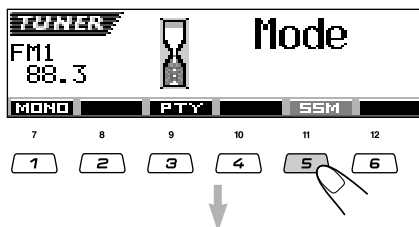
"–SSM–" appears, then disappears
when automatic preset is over.

Local FM stations with the strongest signals are
searched and stored automatically in the band
number you have selected (FM1, FM2, or FM3).
These stations are preset in the number buttons
—No.1 (lowest frequency) to No.6 (highest
frequency).
When automatic preset is over, the station stored
in number button 1 will be automatically tuned in.

Manual preset

You can preset up to 6 stations in each band
(FM1, FM2, FM3, and AM) manually.

Ex.: Storing FM station of 92.5 MHz into the
preset number 1 of the FM1 band.

1 Select the band (FM1 – 3, AM) you
want to store stations into (in this
example, FM1).

FM/AM
Each time you press the
button, the band changes as
follows:

→ FM1 → FM2 → FM3 → AM ┐
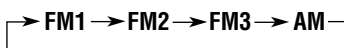
2 Tune in to a station (in this example,
of 92.5 MHz).
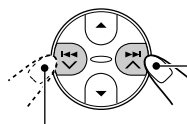
To tune in to stations
of higher frequencies

To tune in to stations of lower frequencies

```
TUNER          ON AIR
FM1
92.5
STEREO
FLAT
```

3 Press and hold the number button
(in this example, 1) for more than
2 seconds.

```
7
[1]
```

```
TUNER          Preset1   ON AIR
FM1    92.5 MHZ
                    STEREO
              1:28  FLAT
```

The display pattern automatically changes
to the small animation display (see page
14). The preset number flashes for about
5 seconds, then the previous display pattern
resumes.

4 Repeat the above procedure to store
other stations into other preset
numbers.

Notes:
- *A previously preset station is erased when a new
station is stored in the same preset number.*
- *Preset stations are erased when the power supply to
the memory circuit is interrupted (for example,
during battery replacement). If this occurs, preset
the stations again.*

ENGLISH

Tuning in to a preset station

You can easily tune in to a preset station.
Remember that you must store stations first. If
you have not stored them yet, see "Storing
stations in memory" on pages 11 and 12.

Selecting a preset station directly

1 **Select the band (FM1 – 3, AM).**

FM/AM

Each time you press the
button, the band changes as
follows:

→ **FM1** → **FM2** → **FM3** → **AM** →
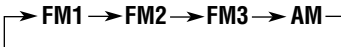
2 **Select the number (1 – 6) for the**
preset station you want.

```
    7      8      9      10     11     12
 ┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐
 │ 1  │ │ 2  │ │ 3  │ │ 4  │ │ 5  │ │ 6  │
 └────┘ └────┘ └────┘ └────┘ └────┘ └────┘
```
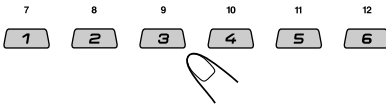
Selecting a preset station using the preset station list

If you forget what stations are stored in what
preset numbers, you can check the preset station
list, then select your desired station.

1 **Select the band (FM1 – 3, AM).**

FM/AM

Each time you press the
button, the band changes as
follows:
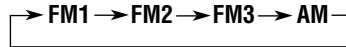
→ **FM1** → **FM2** → **FM3** → **AM** →

2 **Press and hold ▲ (up) or ▼ (down)**
until the preset station list for the
current band (FM1, FM2, FM3, or AM)
appears on the display.

```
┌─────────────────────────────────────┐
│ TUNER   ① 88.3    ④105.9             │
│ FM1  P1 ② 89.9    ⑤Rock              │
│ Preset                               │
│ STEREO  ③MHH      ⑥POP               │
│ ···· FLAT                            │
└─────────────────────────────────────┘
```
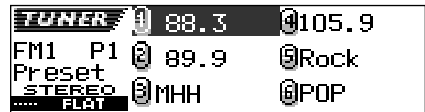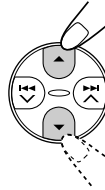
Notes:
* *You can show the other FM band preset station lists*
  (FM1, FM2, or FM3) by pressing ▲ (up) or ▼
  (down).
* *If a preset station is an FM RDS station with PS*
  signal, PS name will be shown instead of the station
  frequency.

3 **Select the number (1 – 6) for the**
preset station you want.
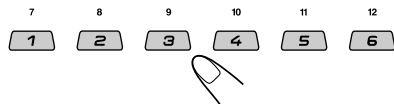
```
    7      8      9      10     11     12
 ┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐ ┌────┐
 │ 1  │ │ 2  │ │ 3  │ │ 4  │ │ 5  │ │ 6  │
 └────┘ └────┘ └────┘ └────┘ └────┘ └────┘
```

13

Changing the display pattern

By pressing D (DISP), you can change the information shown on the display.

DISP

D

Each time you press the button, the display patterns change as follows:

• **When receiving an AM or non FM RDS-station**

Large animation display

Appears only when selecting a preset station

TUNER ON AIR
FM1 P1
88.3
STEREO
FLAT

Current sound mode (iEQ) (see page 28)

Small animation display

TUNER
Preset1 ON AIR
FM1 88.3 MHz
STEREO
1:28 FLAT

Clock time

Clock time display

TUNER
FM1 P1
88.3
STEREO
FLAT
1:28

• **When receiving an FM RDS station** (see the following pages)

Large animation display

PS name

TUNER ON AIR
FM1 P1
Bayern 2
STEREO
FLAT

Current sound mode (iEQ) (see page 28)

Small animation display 1

TUNER
Preset1 ON AIR
FM1 Bayern 2
STEREO
1:28 FLAT

Clock time

Small animation display 2

PTY Varied P1 ON AIR
FM1 Bayern 2
STEREO
1:28 FLAT

PTY code appears

Clock time display

TUNER
FM1 P1
Bayern 2
STEREO
FLAT
1:28

14
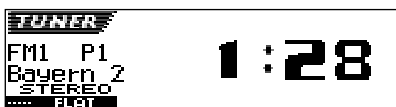
What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.
Another advantage of RDS function is called "Enhanced Other Networks." By using the Enhanced Other Networks data sent from a station, you can tune in to a different station of a different network broadcasting your favorite programme or traffic announcement while listening to another programme or to another source such as CD.

By receiving the RDS data, this unit can do the following:
• Tracing the same programme automatically (Network-Tracking Reception)
• Standby Reception of TA (Traffic Announcement) or your favorite programme
• PTY (Programme Type) search
• Programme search
• And some other functions

Tracing the same programme automatically (Network-Tracking Reception)

When driving in an area where FM reception is not good, the tuner built in this unit automatically tunes in to another RDS station, broadcasting the same programme with stronger signals. So, you can continue to listen to the same programme in its finest reception, no matter where you drive. (See the illustration on page 21.)
Two types of the RDS data are used to make Network-Tracking Reception work correctly —PI (Programme Identification) and AF (Alternative Frequency).
Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.

To use Network-Tracking Reception

You can select the different modes of network-tracking reception to continue listening to the same programme in its finest reception.
When shipped from the factory, "AF" is selected.

• AF: Network-Tracking Reception is activated without Regionalization. With this setting, the unit switches to another station within the same network when the receiving signals from the current station become weak. (In this mode, the programme may differ from the one currently received.)
The AF indicator lights up.

• AF Reg: Network-Tracking Reception is activated with Regionalization. With this setting, the unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak.
The REG indicator lights up.

• Off: Network-Tracking Reception is deactivated.
Neither the AF nor the REG indicator lights up.

AF or REG indicator lights up.

Note:
If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception is also activated ("AF") automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 51.)

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**

○ SEL

2 **Press number button 4 to select "TUNER"—Tuner category of the PSM settings.**

The "PTY Stnby" (standby) setting screen appears on the display.

```
PSM        ◄► PTY Stnby ◄►
Tuner      ◄   News      ►
MOVIE CLOCK DISP TUNER AUDIO COLOR
```
```
 7    8    9   10   11   12
[ 1 ][ 2 ][ 3 ][ 4 ][ 5 ][ 6 ]
```

3 **Select "AF-Regn'l" (alternative frequency/regionalization reception).**

```
AF-Regn'l ◄►
AF        ►
SP TUNER AUDIO COLOR
```
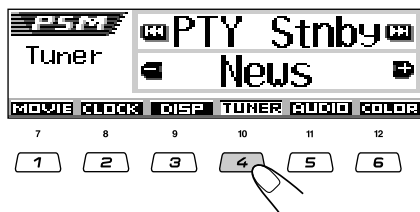
4 **Select the desired mode—"AF," "AF Reg," or "Off."**
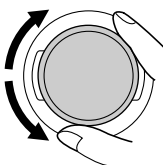
5 **Finish the setting.**

○ SEL

Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from the current source (another FM station, CD, or other connected components).

* *TA Standby Reception will not work if you are listening to an AM station.*

○ TP/PTY ○

Press TP/PTY to activate TA Standby Reception.
Each time your press the button, this function is turned on and off alternately.

```
TUNER            ON AIR
FM1
88.3
..... FLAT    TP    AF
```

TP indicator appears.
(either lights up or flashes)

■ **When the current source is FM,** the TP indicator either lights up or flashes.

• If the TP indicator lights up, TA Standby Reception is activated.
  If a station starts broadcasting a traffic announcement, "Traffic Flash" appears on the display, and this unit automatically tunes in to the station. The volume changes to the preset TA volume level (see page 20) and the traffic announcement can be heard.

• If the TP indicator flashes, TA Standby Reception is not yet activated since the station being received does not provide the signals used for TA Standby Reception.
  To activate TA Standby Reception, you need to tune in to another station providing these signals. Press ►►I ∧ or I◄◄ ∨ to search for such a station.
  When a station providing these signals is tuned in, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

■ **When the current source is other than FM,** the TP indicator lights up.
If a station starts broadcasting a traffic announcement, "Traffic Flash" appears on the display, and this unit automatically changes the source and tunes in to the station.

Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source except AM stations.

To select your favorite PTY code for PTY Standby Reception

When shipped from factory, PTY Standby Reception has been set to work for searching for "News" programmes.
You can select your favorite programme type for PTY Standby Reception.

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see pages 31 and 32.)**

2 **Press number button 4 to select "TUNER"—Tuner category of the PSM settings.**

The "PTY Stnby" (standby) setting screen appears on the display.

3 **Select one of the twenty-nine PTY codes. (See page 21.)**
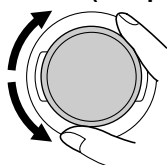
Selected code name appears on the display and is stored into memory.

4 **Finish the setting.**

To set PTY Standby Reception

1 Press M (MODE) while listening to an FM stereo broadcast.

"Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press number button 3 to activate PTY Standby Reception while "Mode" is still on the display.

Each time you press the button, PTY Standby Reception turns on and off alternately.
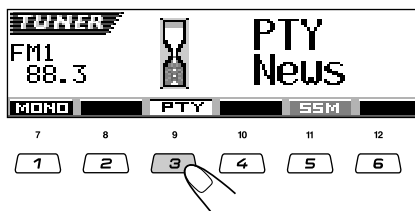
Ex.: When the currently selected PTY code for PTY Standby Reception is "News"

After about 5 seconds

The display returns to the source indication screen.

PTY indicator appears. (either lights up or flashes)

The PTY indicator either lights up or flashes.
• If the PTY indicator lights up, PTY Standby Reception is activated.
 If a station starts broadcasting the selected PTY programme, this unit automatically tunes in to the station.
• If the PTY indicator flashes, PTY Standby Reception is not yet activated since the station being received does not provide the signals used for PTY Standby Reception.
 To activate PTY Standby Reception, you need to tune in to another station providing these signals. Press ►►I ⋀ or I◄◄ ⋁ to search for such a station.
 When a station providing these signals is tuned in, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

Notes:
After turning on PTY Standby Reception, you can change the source without canceling PTY Standby Reception. In this case, the PTY indicator stops flashing if it was. If a station starts broadcasting the selected PTY programme, this unit automatically changes the source and tunes in to the station.
• If you change the source to AM, PTY Standby Reception will be temporarily canceled.
• You can only deactivate the PTY Standby Reception when the source is FM.

Searching your favorite programme

You can search any one of the PTY codes.
In addition, you can store your 6 favorite programme types in the number buttons.
When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

To store your favorite programme types, see below and page 19.
To search your favorite programme type, see page 19.

1	2	3
Pop M	Rock M	Easy M

4	5	6
Classics	Affairs	Varied

To store your favorite programme types

1 **Press and hold TP/PTY for more than 2 seconds while listening to an FM station.**

The last selected PTY code appears.

TUNER ►► Search ►►
FM1
PTY P1   Pop M
FLAT   PTY List

Ex.: If you have selected "Pop M" previously

2 **Select one of the twenty-nine PTY codes. (See page 21.)**
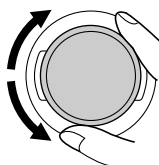
Selected code name appears on the display.

3 **Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.**

7	8	9	10	11	12
1	2	3	4	5	6
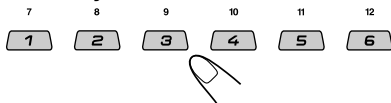
Selected preset number flashes for a while.

4 **Press and hold TP/PTY for more than 2 seconds to exit from this mode.**

TP/PTY

To search your favorite programme type

1 **Press and hold TP/PTY for more than 2 seconds while listening to an FM station.**

TP/PTY   The last selected PTY code appears.

TUNER	⏮	Search	⏭
FM1 PTY P1	▬	Pop M	➕
FLAT	▭	PTY List	◄

Ex.: If you have selected "Pop M" previously

2 **To select one of your favorite programme type**

7	8	9	10	11	12
1	2	3	4	5	6
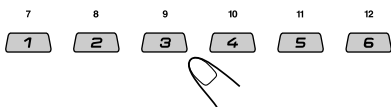
or

To select any one of the twenty-nine PTY codes

or

TUNER	⏮	Search	⏭
FM1 PTY P1	▬	Rock M	➕
FLAT	▭	PTY List	◄
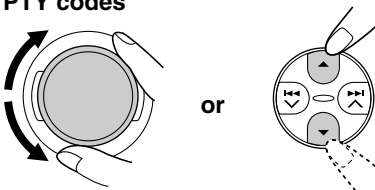
Ex.: When "Rock M" is selected

How to use the ▲ (up) or ▼ (down) button
By pressing ▲ (up) or ▼ (down) repeatedly, you can show the list of your preset PTY codes and all twenty-nine PTY codes (six PTY codes at a time). First, the list of your stored PTY codes appears, then all twenty-nine PTY codes (six PTY codes at a time) appears in sequence. Press the number button to select your desired PTY code on the list currently shown on the display.

3 **Start PTY search for your favorite programme.**

PTY	Rock M	ON AIR
FM1	SEARCH	
AF		1:28 FLAT
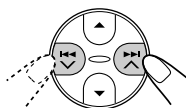
• If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.
• If there is no station broadcasting a programme of the same PTY code as you have selected, the station will not change.

Note:
In some areas, the PTY search will not work correctly.

19

Other convenient RDS functions and adjustments

Automatic selection of the station when using the number buttons

Usually when you press the number button, the preset station is tuned in.
However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting. (Programme search)
• The unit takes some time to tune in to another station using programme search.

To activate programme search, follow the procedure below.
• See also "Changing the general settings (PSM)" on pages 31 and 32.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ▶▶I ∧ or I◀◀ ∨ to select "P(Programme)-Search."
4 Turn the control dial clockwise to select "On." Now programme search is activated.
5 Press SEL (select) to finish the setting.

To cancel programme search, repeat the same procedure and select "Off" in step **4** by turning the control dial counterclockwise.

Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.
• See also "Changing the general settings (PSM)" on pages 31 and 32.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ▶▶I ∧ or I◀◀ ∨ to select "TA Volume."
4 Turn the control dial to set to the desired volume.
You can set it from "Volume 0" to "Volume 50."
5 Press SEL (select) to finish the setting.

Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.
If you do not want to use automatic clock adjustment, follow the procedure below.
• See also "Changing the general settings (PSM)" on pages 31 and 32.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 2 to select "CLOCK"— Clock category of the PSM settings.
3 Press ▶▶I ∧ or I◀◀ ∨ to select "Auto Adj" (adjustment).
4 Turn the control dial counterclockwise to select "Off."
Now automatic clock adjustment is canceled.
5 Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "On" in step **4** by turning the control dial clockwise.

Note:
You must stay tuned to the same station for more than 2 minutes after setting "Auto Adj" to "On." Otherwise, the clock time will not be adjusted. (This is because the unit takes up to 2 minutes to capture the CT data in the RDS signal.)

PTY codes

News:	News
Affairs:	Topical programmes expanding on current news or affairs
Info:	Programmes which impart advice on a wide variety of topics
Sport:	Sport events
Educate:	Educational programmes
Drama:	Radio plays
Culture:	Programmes on national or regional culture
Science:	Programmes on natural science and technology
Varied:	Other programmes like comedies or ceremonies
Pop M:	Pop music
Rock M:	Rock music
Easy M:	Easy-listening music
Light M:	Light music
Classics:	Classical music
Other M:	Other music
Weather:	Weather information
Finance:	Reports on commerce, trading, the Stock Market, etc.
Children:	Entertainment programmes for children
Social:	Programmes on social activities
Religion:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
Phone In:	Programmes where people can express their views either by phone or in a public forum
Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Leisure:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
Jazz:	Jazz music
Country:	Country music
Nation M:	Current popular music from another nation or region, in that country's language
Oldies:	Classic pop music
Folk M:	Folk music
Document:	Programmes dealing with factual matters, presented in an investigative style

The same programme can be received on different frequencies.

Programme 1 broadcasting on frequency A

Programme 1 broadcasting on frequency E

Programme 1 broadcasting on frequency B

Programme 1 broadcasting on frequency C

Programme 1 broadcasting on frequency D
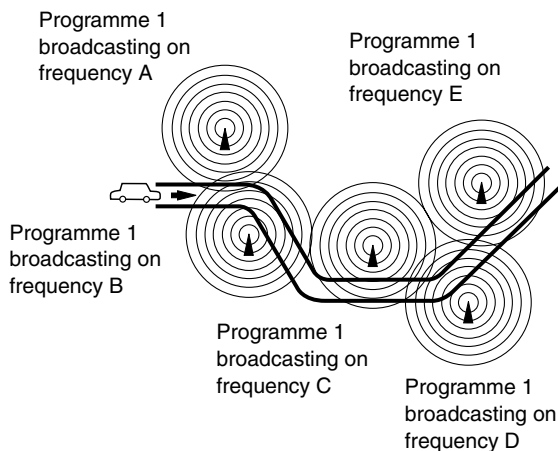
CD OPERATIONS

Playing a CD

The display changes to show the following:

1 Open the control panel.

Total track number and total
playing time of the inserted disc
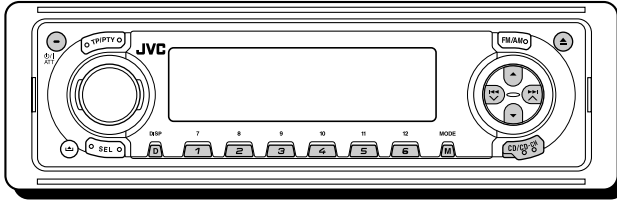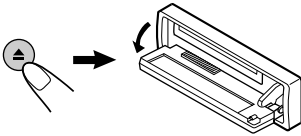
Note on One-Touch Operation:
When a CD is already in the loading slot, pressing CD/CD-CH turns on the unit and starts playback automatically.

2 Insert a CD into the loading slot.
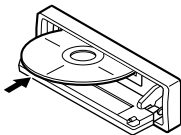
The unit turns on, draws the CD and starts playback automatically.
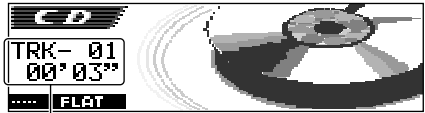
Current track and elapsed playing time

Notes:
- *When a CD is inserted upside down, the CD automatically ejects (if the control panel is open). If the control panel is closed, the source changes to the previously selected source, "Please Eject" flashes on the display.*
- *If there is no CD in the loading slot, you cannot select CD as the source. "No Disc" flashes on the display.*

3 Close the control panel by hand.

All tracks will be played repeatedly until you stop playback.

To stop play and eject the CD

Press ⏏.

CD play stops and the control panel flips down. The CD automatically ejects from the loading slot. The source changes to the previously selected source.

• If you change the source, CD play also stops (without ejecting the CD).
  Next time you select "CD" as the source or turn on the power, CD play starts from where playback has been stopped previously.

Notes:
• *If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (Disc play will not start this time.)*
• *You can eject the disc even when the unit is turned off.*

Locating a track or a particular portion on a CD

To fast-forward or reverse the track

Press and hold ►►I ∧, while playing a CD, to fast-forward the track.
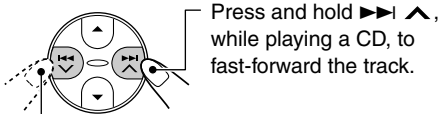
Press and hold I◄◄ ∨, while playing a CD, to reverse the track.

To go to the next or previous tracks

Press ►►I ∧ briefly, while playing a CD, to go ahead to the beginning of the next track.
Each time you press the button consecutively, the beginning of the next tracks is located and played back.
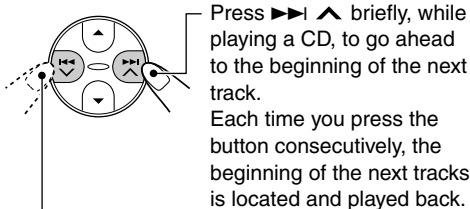
Press I◄◄ ∨ briefly, while playing a CD, to go back to the beginning of the current track.
Each time you press the button consecutively, the beginning of the previous tracks is located and played back.

To go to a particular track directly

Press the number button corresponding to the track number to start its playback.
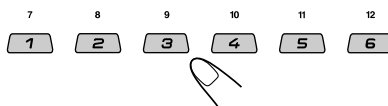
• To select a track number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
• To select a track number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than one second.

To go to a track quickly

1 Press M (MODE) while playing a CD.
  "Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press ▲ (up) or ▼ (down).

To skip 10 tracks* forwards to the last track

To skip 10 tracks* backwards to the first track
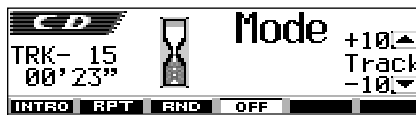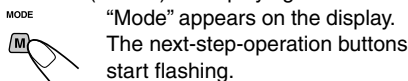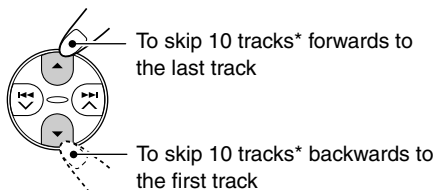
* The first time you press ▲ (up) or ▼ (down) button, the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 tracks (see "How to go to the desired track quickly" on page 24).
• After the last track, the first track will be selected, and vice versa.

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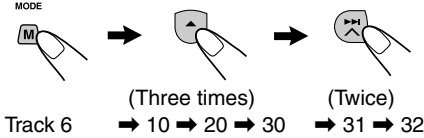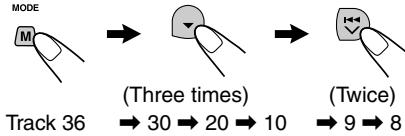
Selecting CD playback modes

To play back tracks at random
(Disc Random Play)

You can play back all tracks on the CD at
random.

1 Press M (MODE) while playing a CD.

MODE

M "Mode" appears on the display.
The next-step-operation buttons
start flashing.
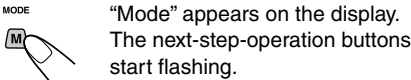
2 Press number button 3, while "Mode" is still on
the display.
Each time you press the button, "Random
Disc" or "Random Off" appears alternately.
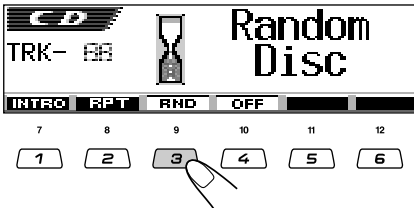
When disc random play is turned on, the RND
(disc random) indicator lights up on the display. A
track randomly selected starts playing.

To cancel disc random play, select "Random
Off" by pressing number button 3 repeatedly or
press number button 4 in step **2**.

To play back tracks repeatedly
(Track Repeat Play)

You can play back the current track repeatedly.

1 Press M (MODE) while playing a CD.

MODE

M "Mode" appears on the display.
The next-step-operation buttons
start flashing.
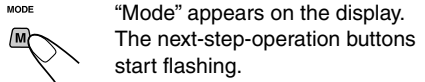
2 Press number button 2, while "Mode" is still on
the display.
Each time you press the button, "Repeat
Track" or "Repeat Off" appears alternately.
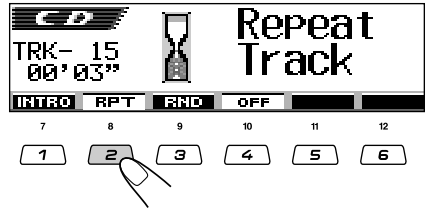
When track repeat play is turned on, the RPT
(track repeat) indicator lights up on the display.
The current track starts playing repeatedly.

To cancel track repeat play, select "Repeat Off"
by pressing number button 2 repeatedly or press
number button 4 in step **2**.

To play back only intros (Track Intro Scan)

You can play back the first 15 seconds of each track sequentially.

1 Press M (MODE) while playing a CD.

MODE

"Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press number button 1, while "Mode" is still on the display.

Each time you press the button, "Intro Track" or "Intro Off" appears alternately.
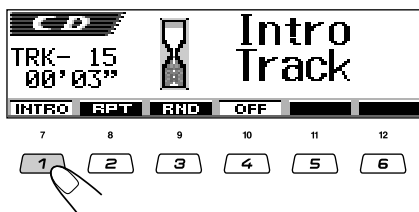
When track intro scan is turned on, the ♪ INT (track intro) indicator lights up on the display. The first 15 seconds of each track is played sequentially.

To cancel track intro scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.

Prohibiting CD ejection

You can prohibit CD ejection and can lock a CD in the loading slot.

While pressing CD/CD-CH, press and hold ⏻/I/ATT for more than 2 seconds.

"No Eject" flashes on the display for about 5 seconds, and the CD is locked and cannot be ejected.

To cancel the prohibition and unlock the CD
While pressing CD/CD-CH, press and hold ⏻/I/ATT again for more than 2 seconds. "Eject OK" flashes on the display for about 5 seconds, and the CD is unlocked.

Changing the display pattern

By pressing D (DISP), you can change the information shown on the display.

DISP

Each time you press the button, the display patterns change as follows:

Large animation display

TRK- 01
00'03"
FLAT

Current sound
mode (iEQ)
(see page 28)

Small animation display 1

TRK 01 00'03"
1:28 FLAT

Clock time

Small animation
display 2

Titanic
TRK 01 00'03"
1:28 FLAT

Small animation
display 3

Never an A
TRK 01 00'03"
1:28 FLAT

Clock time
display

TRK- 01
00'03"
FLAT

1:28

Small animation
display 4

Titanic
01 Never a
1:28 FLAT
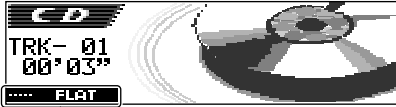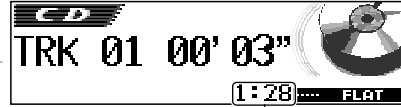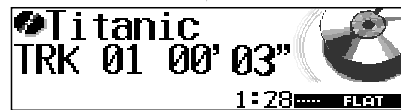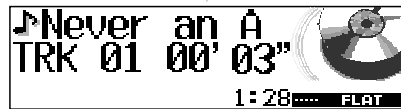
Notes:

• *When the disc title/performer is shown, the* ● *(disc) indicator lights up. When the track title is shown, the* ♪ *(track) indicator lights up.*

• *If the information cannot be shown at a time, it will scroll on the display.*
  Some characters or symbols will not be shown (will be blanked or substituted) on the display.

• *If no name is assigned to the conventional CD, "NO NAME" will appear.*
  To assign a name to a conventional CD, see page 38.

• *If no disc title/performer or no track title is recorded for the CD Text, "NO NAME" will appear.*

SOUND ADJUSTMENTS 🎵

Adjusting the sound

You can adjust the sound characteristics to your preference.
• "Vol Adj" setting is required for each source except FM. Before starting "Vol Adj," select an appropriate source for which you want to make an adjustment.

1 Select the item you want to adjust.

The next-step-operation buttons start flashing.
Each time you press SEL (select), the adjustable items change as follows:

```
   ┌──→ iEQ  ──→  Fad/Bal  ──→  Vol Adj ──┐
   │    iEQ       SEL          SEL        │
   │                                      │
   └── Canceled  ←──  METER  ←────────────┘
                     METER
```
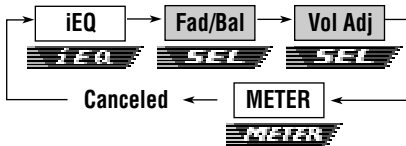
• For iEQ (sound mode) settings, see pages 28 and 29.
• For METER (level meter) settings, see page 30.

Indication	To do:	Range
Fad*	Adjust the front and rear speaker balance.	R06 (Rear only) | F06 (Front only)
Bal	Adjust the left and right speaker balance.	L06 (Left only) | R06 (Right only)
Vol Adj	Adjust and store the input level of each source.	–12 (min.) | +12 (max.)

* *If you are using a two-speaker system, set the fader level to "00."*

2 Make adjustments.

• **To adjust fader and balance—Fad, Bal:**
You can make these two adjustments at the same time, by referring to the indication on the display.
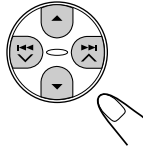
• Press ▲ (up) or ▼ (down) to adjust the fader.
• Press ►►| ∧ or |◄◄ ∨ to adjust the balance.

```
  SEL          FRONT ▲
Fad  00   |◄◄              ►►|
Bal  00
             ▼ REAR
```

• **To adjust the input level of each source —Vol Adj:**
This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.
Once you have adjusted it, it is memorized, and you will not need to adjust the volume level each time you change the source.

Adjust the input level to match the FM sound level.
• You cannot make an adjustment if the source is FM. "FIX" will appear.
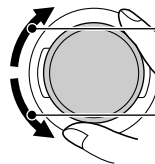
To increase the level

To decrease the level

```
  SEL
Vol Adj
⊂  00  ⊃
```

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ENGLISH
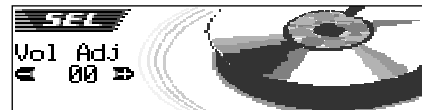
Selecting preset sound modes (iEQ: intelligent equalizer)

You can select a preset sound mode (iEQ: intelligent equalizer) suitable to the music genre.

• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step **1** again.

Available sound modes:

• **FLAT** (Flat)	• **Country** (Country music)
• **H.ROCK** (Hard Rock)	• **REGGAE** (Reggae)
• **R & B** (Rhythm and Blues)	• **CLASSIC** (Classical music)
• **POP** (Popular music)	• **USER 1**
• **JAZZ** (Jazz music)	• **USER 2**
• **DANCE** (Dance music)	• **USER 3**

1 Press SEL (select) once.

Last selected sound mode is called up.
The next-step-operation buttons start flashing.
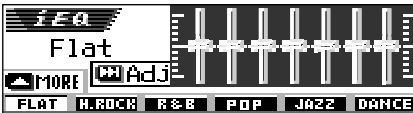
Ex.: If you have selected "Flat" previously

• Each time you press the button, the adjustable items change as follows:

iEQ → Fad/Bal → Vol Adj

Canceled ← METER ←
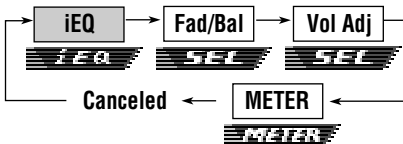
• For SEL (Fad/Bal, Vol Adj) settings, see page 27.
• For METER (level meter) settings, see page 30.

2 Press the number button to select the sound mode you want.

• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).
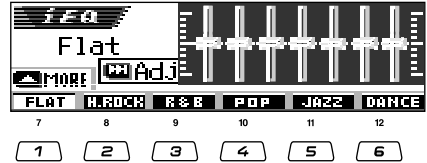
Press ▲ (up) or ▼ (down).
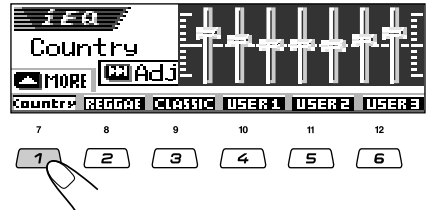
Ex.: When you press number button 1 to select "Country"

To cancel the preset sound mode, select "FLAT" in step **2**.

Note:
For details about the preset settings of each sound mode, see page 53.

To exit from the preset sound mode, press SEL (select) repeatedly or wait for about 5 seconds.

Storing your own sound adjustments

You can adjust the sound modes to your preference and store your own adjustments in memory (User 1, User 2, and User 3).
• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step **1** again.

1 Press SEL (select) once.

The next-step-operation buttons start flashing.
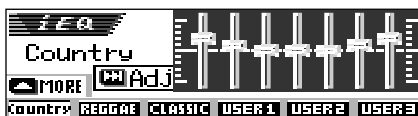
Ex.: When you select "Country" previously

2 Select the sound mode you want to adjust.
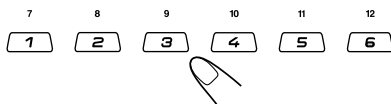
• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).

3 Enter the sound adjustment mode.
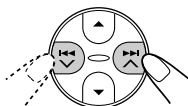
The following sound mode adjustment screen appears on the display.
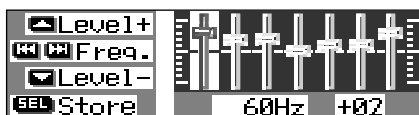
4 Make adjustments as you like.
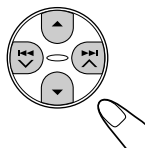
1) Press ▶▶I ∧ or I◀◀ ∨ to select the frequency band—60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz.

2) Press ▲ (up) or ▼ (down) to adjust the level of the selected band within the range of –05 to +05.

3) Repeat steps 1) and 2) to adjust the other frequency bands.

5 Store the adjustment you made.

The confirmation message appears—whether you want to store the adjustment.
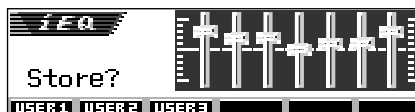
If you want to cancel the adjustments, press SEL (select).
• Adjustment you made remains effective until you select another sound mode.

6 Select one of the user sound modes (User 1, User 2, or User 3) you want to store into.
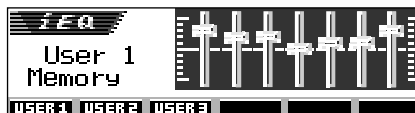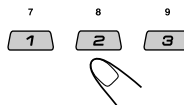
Ex.: When you select "User 1"

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Activating the level meter

You can show the level meters on the display while playing any source. This unit is equipped with three level meter patterns.
When shipped from the factory, level meter is set to "Off."

• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step *1* again.

1 Press SEL (select) repeatedly.

Last selected level meter appears on the display. The next-step-operation buttons start flashing.

• Each time you press the button, the adjustable items change as follows:

iEQ → Fad/Bal → Vol Adj

Canceled ← METER ←
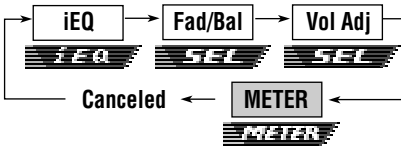
• For SEL (Fad/Bal, Vol Adj) settings, see page 27.
• For iEQ (sound mode) settings, see pages 28 and 29.

2 Select the level meter pattern you want.
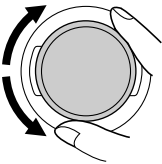
As you turn the control dial, the level meters change as follows:

Off ↔ 1
3 ↔ 2
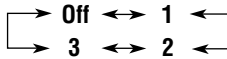
Meter 1:

The audio level meter fluctuates vertically.
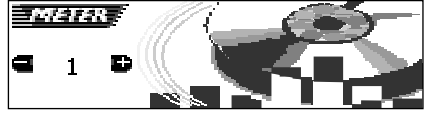
Meter 2:

The speaker on the display vibrates as input audio level changes.
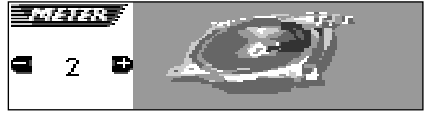
Meter 3:

The left and right audio level meters appear.
• If the small animation display is selected, only one audio level meter can be shown.
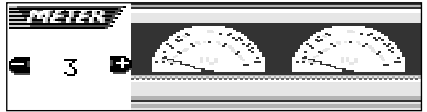
OTHER MAIN FUNCTIONS

Changing the general settings (PSM)

You can change the items listed on the table below and on page 32 by using the PSM (Preferred Setting Mode) control.

• The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR.

Basic Procedure

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See pages 31 and 32.)**

The next-step-operation buttons start flashing.

2 **Press number button to select one of the PSM category.**

The first-listed item in the selected category appears.
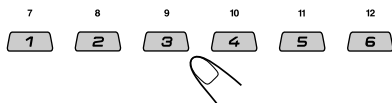
3 **Select the PSM item you want to adjust. (See pages 31 and 32.)**
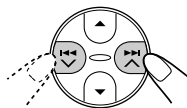
• By pressing ▶▶| ∧ or |◀◀ ∨ repeatedly, you can also move to other categories.

4 **Adjust the PSM item selected.**
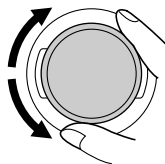
5 **Repeat steps *2* to *4* to adjust the other PSM items if necessary.**

6 **Finish the setting.**

Preferred Setting Mode (PSM) items

The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR. To select a desired item, first select the category where the desired item is listed.

Indications			Selectable values/items		Factory-preset settings	See page
MOVIE	**Graphics**	Movie demonstration	All Demo ↔ Int Demo ↰ Off ↲		Int Demo	8, 33
	KeyIn CFM	Key in confirmation	Long ↔ Short ↰ Off ↲		Long	33
CLOCK	**Clock Hr**	Hour adjustment	0 – 23 (1 – 12)		0 (0:00)	9
	Clock Min	Minute adjustment	00 – 59		00 (0:00)	9
	24H/12H	24 hours or 12 hours	12Hours	24Hours	24Hours	9
	Auto Adj	Automatic clock setting	Off	On	On	20

Indications			Selectable values/items		Factory-preset settings	See page
DISP (display)	**Scroll**	Scroll mode	Once ↔ Auto ↱ Off ↲		Once	33
	Dimmer	Dimmer mode	→ Auto ↔ Off ← ↳ Time Set ↔ On ↲		Auto	35
	From– To*[1]	Dimmer time setting	Any time – Any time		18 – 7	35
	Contrast	Contrast	1 – 10		5	33
	LCD Type	Display type	Positive ↔ Negative ↱ Auto ↲		Auto	33
	Font Type	Font type	1	2	1	33
	Tag	Tag display	Off	On	On	33, 34
TUNER	**PTY Stnby**	PTY Standby	29 programme types (see page 21)		News	17
	AF-Regn'l	Alternate frequency/ Regionalization reception	AF ↔ AF Reg ↱ Off*[2] ↲		AF	16
	TA Volume	Traffic announcement volume	Volume 0 – Volume 50		Volume 20	20
	P-Search	Programme search	Off	On	Off	20
	IF Filter	Intermediate frequency filter	Wide	Auto	Auto	34
	DAB AF*[3]	Alternative frequency search	Off	On	On	51
AUDIO	**Beep**	Key-touch tone	Off	On	On	34
	Ext Input*[4]	External component	Changer	Line In	Changer	34
	Telephone	Telephone Muting	Off ↔ Muting1 ↱ Muting2 ↲		Off	34
COLOR	**All SRC**	Selected source	See page 36 for details		Every	36
	User	User color selection	Day	Night	Day	37
	R	Red	00 – 11		Day: 07/Night: 05	37
	G	Green	00 – 11		Day: 07/Night: 05	37
	B	Blue	00 – 11		Day: 07/Night: 05	37
	TrimIllum	Trim illumination	On ↔ Audio ↱ Off ↲		On	34

*[1] *Displayed only when "Dimmer" is set to "Time Set."*
*[2] *Displayed only when "DAB AF" is set to "Off."*
*[3] *Displayed only when DAB tuner is connected.*
*[4] *Displayed only when one of the following sources is selected—FM, AM, and CD.*

To set the movie demonstration—Graphics

When shipped from the factory, the movie has been activated.

• All Demo: If no operation is done for about 20 seconds, the movie demonstration starts automatically.
• Int Demo: If no operation is done for about 20 seconds, the movie demonstration and playback source indication appears alternately on the display.
• Off: Cancels the movie demonstration.

To select the source animation on the display—KeyIn CFM

When changing the source, the display shows the source animation. You can select the source animation on the display according to your preference.

• Long: A long source animation appears.
• Short: A short source animation appears.
• Off: Cancels the source animation.

To select the scroll mode for disc information and the DAB text—Scroll

You can select the scroll mode for disc information and for the DAB radio text (DLS: Dynamic Label Segment).

• Once: While showing the disc information: scrolls the disc information only once. While showing the DAB text: scrolls the detailed DAB text only once.
• Auto: While showing the disc information: repeats the scroll (in 5-second intervals). While showing the DAB text: scrolls the detailed DAB text.
• Off: While showing the disc information: cancels scroll mode. While showing the DAB text: shows only headline if any.

Note:
Even if the scroll mode is set to "Off," you can scroll the display by pressing D (DISP) for more than one second.

To adjust the display contrast level —Contrast

You can adjust the display contrast level among 1 to 10.
Adjust it to make the display indications clear and legible.

To select the display illumination pattern —LCD Type

You can select the display illumination patterns according to your preference.

• Auto: Positive pattern will be selected during the day time (depending on the "Dimmer" setting); on the other hand, negative pattern will be used during the night time (depending on the "Dimmer" setting).
• Positive: Positive (normal) pattern of the display.
• Negative: Negative pattern of the display.

To select the font on the display —Font Type

You can change the font types used on the display. Select either "1" or "2" according to your preference.

To turn the tag display on or off—Tag

This function takes effect only when JVC MP3-compatible CD changer is connected.

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.
There are two versions–ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). Only ID3v1 can be shown.

• On: Turns on the ID3 tag display while playing MP3 files.
  • If an MP3 file does not have ID3 tags, folder name and file name appear.

Note:
If you change the setting from "Off" to "On" while playing an MP3 file, the tag display will be activated when the next file starts playing.

• Off: Turns off the ID3 tag display while playing MP3 files. (Only the folder name and file name can be shown.)

To change the FM tuner selectivity —IF Filter

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard.

• Auto: When this type of interference occurs, this unit automatically increases the tuner selectivity so that interference noise will be reduced. (But the stereo effect will also be lost.)
• Wide: Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will not be lost.

To turn on/off the key-touch tone—Beep

You can deactivate the key-touch tone if you do not want it to beep each time you press a button.

• On: Activates the key-touch tone.
• Off: Deactivates the key-touch tone.

To select the external component to use —Ext Input

You can connect the external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).
To use the external component as the playback source through this unit, you need to select which component—CD changer or external component—to use.

• Changer: To use the CD changer.
• Line In: To use the external component other than CD changer.

Note:
For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).

To select the telephone muting —Telephone

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "Muting1" or "Muting2," whichever mutes the sounds from this unit.

• Muting1: Selects this if this setting can mute the sounds while using the cellular phone.
• Muting2: Selects this if this setting can mute the sounds while using the cellular phone.
• Off: Cancels the telephone muting.

To turn the trim illumination on or off —TrimIllum

You can illuminate the trim plate according to your preference.

• On: Illuminate the trim plate.
• Audio: Illumination changes as audio signal level change.
• Off: Cancels the illumination.

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Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.

Note:
Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.
*In this case, select any other than "Auto."*

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See pages 31 and 32.)

The next-step-operation buttons start flashing.
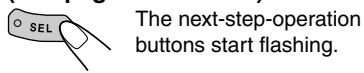
2 Press number button 3 to select "DISP"—Display category of the PSM settings.
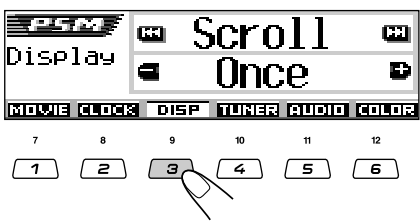
3 Press ▶▶ ∧ or ◄◄ ∨ to select "Dimmer."

4 Set the dimmer mode as you like.
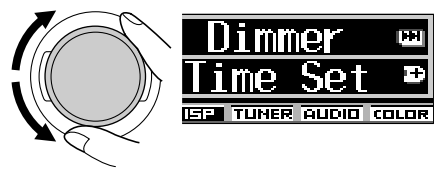
- Auto: Activates Auto Dimmer. When you turn on the car head lights, the display automatically dims.
- Off: Cancels Auto Dimmer.
- On: Always dims the display.
- Time Set: Used to set the timer for the dimmer function.

Note:
Selecting "Auto" or "Time Set" may change the display pattern to the "Negative" or "Positive" pattern if "LCD Type" is set to "Auto."

- If you select "Time Set," go to the following steps to set the timer.
- If you select any other than "Time Set," go to step *7* to finish the setting.

5 Select "From– To" to set the timer for the dimmer mode.
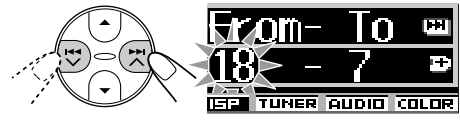
6 Set the timer.
1 Turn the control dial to select the start time.
2 Press ▶▶ ∧ once.
3 Turn the control dial to select the end time.

7 Finish the setting.

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Changing the display color

You can set the display color using the PSM control. You can select your favorite color for each source (or for all sources).
You can also create your own colors, and set them as the display color.

Setting the desired color for each source

Once you have set the color for each source (or for all sources), the display illuminates in the selected color when the source is selected.

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See pages 31 and 32.)**

The next-step-operation buttons start flashing.

2 **Press number button 6 to select "COLOR"—Color category of the PSM settings.**

The "All SRC" setting screen appears on the display.
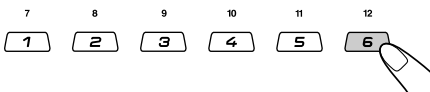
3 **Select the source—All SRC, CD, Changer (Line), FM, or AM—that you want to set the display color for.**

```
   ┌→ All SRC*1 ←──────→ CD ←──┐
   └→ AM ←──→ FM ←──→ Changer*2 ┘
                        (Line)
```
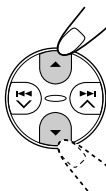
*1 *When you select "All SRC," you can use the same color for all the sources.*
*2 *Selected only either component set in the "Ext Input" setting.*

4 **Select the display color.**
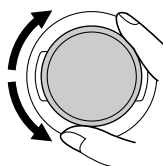
As you turn the control dial, the colors change as follows:

Every*1 ⇄ Aqua ⇄ Sky ⇄ Sea ⇄ Leaves ⇄ Grass ⇄ Red ⇄ Rose ⇄ Amber ⇄ Honey ⇄ Violet ⇄ Cotton ⇄ Snow ⇄ User*2 ⇄ (back to the beginning)

---

*1 *When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").*
*2 *When you select "User," the user-edited colors—"Day" and "Night" will be applied. (See page 37.)*

5 **Repeat steps *3* and *4* to select the color for each source (except when selecting "All SRC" in step *3*).**

6 **Finish the setting.**

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Creating your own color—User

You can create your own colors—"Day" and "Night," and select them as the display color for any desired source.
• Day: Can be used as your user color during the day time (while the headlights are turned off), or as set by the timer ("From– To").
• Night: Can be used as your user color during the night time (while the headlights are turned on), or as set by the timer ("From– To").

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See pages 31 and 32.)**

The next-step-operation buttons start flashing.
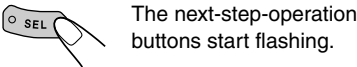
2 **Press number button 6 to select "COLOR"—Color category of the PSM settings.**

The "All SRC" setting screen appears on the display.

3 **Select "User" as a color.**

The user color will be applied to the currently selected source (the one shown on the upper portion of the display. In this example "All SRC").
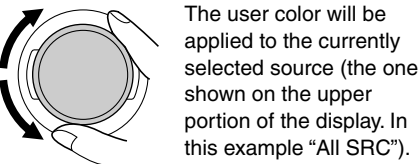
To select which source to apply your user color to, select the target source first by pressing ▲ (up) or ▼ (down), before selecting "User" in this step.

4 **Select the user color adjustment screen.**
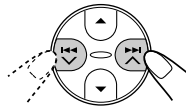
One of the user color adjustment screens appears.
"User Day" or "User Night" is shown on the left side of the display.
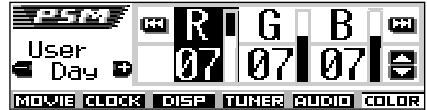
5 **Select "Day" or "Night" which you want to make an adjustment for.**
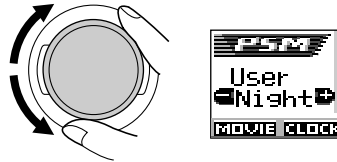
6 **Adjust the selected user color.**

1) **Press ►►| ∧ or |◄◄ ∨ to select one of three primary colors—"R" (red), "G" (green), and "B" (blue).**
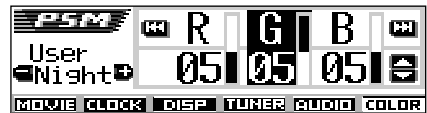
2) **Press ▲ (up) or ▼ (down) to adjust the selected primary color.**
You can adjust within the range of 00 to 11.

3) **Repeat steps 1) and 2) to adjust the other primary colors.**

7 **Repeat steps 5 and 6 to adjust the other user colors—"Day" or "Night."**

8 **Finish the setting.**

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Assigning names to the sources

You can assign names to CDs (both in this unit and in the CD changer) and the external component.
After assigning a name, it will appears on the display when you select the source.

Sources	Maximum number of characters
CDs*	Up to 32 characters (up to 40 discs)
External component	Up to 8 characters

* *You cannot assign a name to a CD Text (and MP3 discs in the CD changer).*

1 **Select a source you want to assign a name to.**

CD/CD-CH → **CD** → **CD-CH**
(or LINE-IN)

When you select a source, the power automatically comes on.

2 **While pressing D (DISP), press and hold SEL (select) for more than 2 seconds.**
The next-step-operation buttons start flashing.

DISP
D   SEL
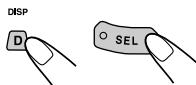
Ex.: When you select CD as the source

3 **Select the character set you want while the first character position is flashing.**

DISP
D

Each time you press the button, the character set changes as follows:

A (A – Z: capital) → a (a – z: small)

↑   ↓

å (Accented letters: lower case)

↑

Å (Accented letters: upper case) ← 0 (0 – 9: numbers, and symbols)
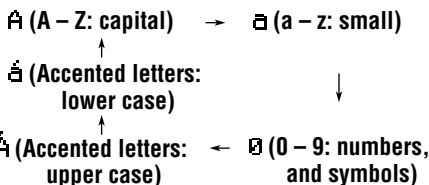
4 **Select a character.**
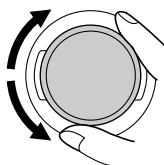
• About the available characters, see page 53.

5 **Move the cursor to the next (or previous) character position.**
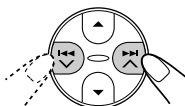
6 **Repeat steps *3* to *5* until you finish entering the name.**

7 **Finish the procedure while the last selected character is flashing.**

SEL

To erase the entered characters

Insert spaces using the same procedure described above.

Notes:
• *When you try to assign a name to the 41st disc, you cannot enter the text entry mode. In this case, delete unwanted names before assignment.*
• *When the CD changer is connected, you can assign names to CDs in the CD changer. These names can also be shown on the display if you insert the CDs in this unit.*
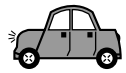
Detaching the control panel

You can detach the control panel when leaving the car.
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

1 **Unlock the control panel.**
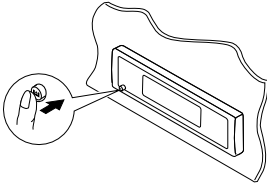
2 **Pull the control panel out of the unit.**
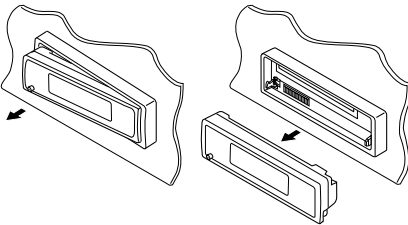
3 **Put the detached control panel into the provided case.**
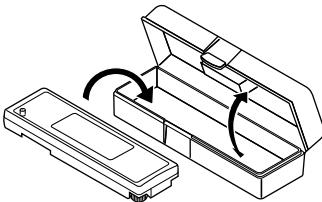
Attaching the control panel

1 **Insert the right side of the control panel into the groove on the panel holder.**
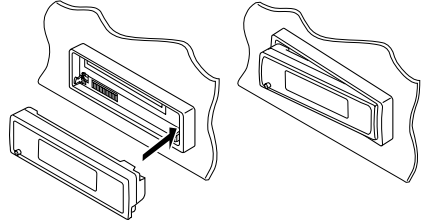
2 **Press the left side of the control panel to fix it to the panel holder.**
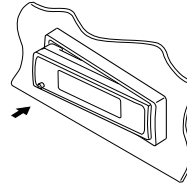
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Connectors
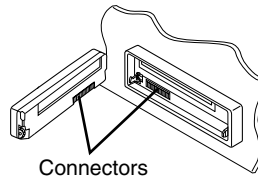
CD CHANGER OPERATIONS
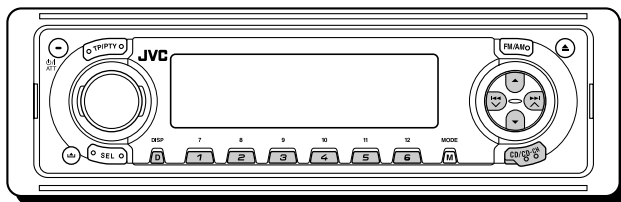
We recommend that you use the JVC MP3-compatible CD changer with your unit.

By using this CD changer, you can play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) recorded either in audio CD format or in MP3 format.
• You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
• You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:
• Refer also to the Instructions supplied with your CD changer.
• If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will flashes on the display. If this happens, remove the magazine and set the discs correctly.
• If no magazine is loaded in the CD changer, "No Magazine" flashes on the display. If this happens, insert the magazine in the CD changer.
• If "Reset 01" – "Reset 08" flashes on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

Playing discs

Select the CD changer (CD-CH).

CD → CD-CH*

* *If you have changed "Ext Input" setting to "Line In" (see page 47), you cannot select the CD changer.*

• **When the current disc is an MP3 disc:**
Playback starts from the first folder of the current disc once file check is completed.

Selected disc number

Current folder/track and elapsed playing time

MP3 indicator

40

MP3

ENGLISH

• **When the current disc is a CD:**
Playback starts from the first track of the current disc.

Selected disc number
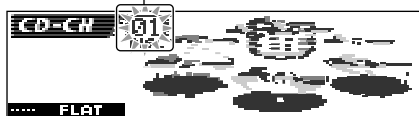
Current track and elapsed playing time

Notes:
• *When you press CD/CD-CH, the power automatically comes on. You do not have to press ⏻/I/ATT to turn on the power.*
• *If you change the source, CD changer play also stops. Next time you select the CD changer as the source, CD changer play starts from where playback has been stopped previously.*

To go to a particular disc directly

Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).
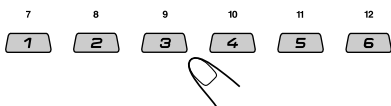
• To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
• To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than one second.

To fast-forward or reverse the track/file
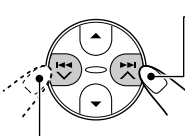
Press and hold ►►I ∧, during play, to fast-forward the track/file.

Press and hold I◄◄ ∨, during play, to reverse the track/file.

Note:
During this operation on an MP3 disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To go to the next or previous tracks/files
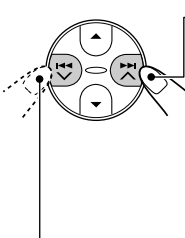
Press ►►I ∧ briefly during play, to skip ahead to the beginning of the next track/file.
Each time you press the button consecutively, the beginning of the next tracks/files is located and played back.

Press I◄◄ ∨ briefly during play, to skip back to the beginning of the current track/file.
Each time you press the button consecutively, the beginning of the previous tracks/files is located and played back.

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MP3

This operation is only possible when using JVC MP3-compatible CD changer (CH-X1500).

To go to a track/file quickly

1 Press M (MODE) while playing a disc.

MODE

"Mode" appears on the display. The next-step-operation buttons start flashing.

```
CD-CH              Mode  +10▲
01- 01                   Track
00'23"                   -10▼
INTRO  RPT  RND  OFF
```
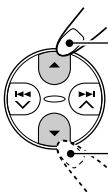
2 Press ▲ (up) or ▼ (down).

To skip 10 tracks/files* forwards to the last track/file

To skip 10 tracks/files* backwards to the first track/file

* The first time you press ▲ (up) or ▼ (down) button, the track/file skips to the nearest higher or lower track/file with a track/file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 tracks/files (see "How to go to the desired track/file quickly" on the right column).

• After the last track/file, the first track/file will be selected, and vice versa.

Note:
If the current playing disc is an MP3 disc, files are skipped within the same folder.

How to go to the desired track/file quickly

• Ex. 1: To select track/file number 32 while playing track/file number 6

MODE

(Three times)   (Twice)

Track/File 6 ➡ 10 ➡ 20 ➡ 30 ➡ 31 ➡ 32
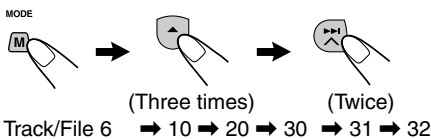
• Ex. 2 : To select track/file number 8 while playing track/file number 36

MODE

(Three times)   (Twice)

Track/File 36 ➡ 30 ➡ 20 ➡ 10 ➡ 9 ➡ 8
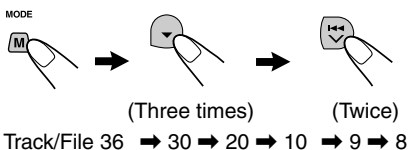
To skip to the next or previous folder (only for MP3 discs)
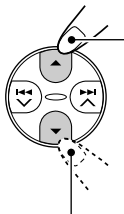
Press ▲ (up) while playing an MP3 disc, to go to the next folder. Each time you press the button consecutively, the next folder is located, and the first file in the folder starts playback.

Press ▼ (down) while playing an MP3 disc, to go to the previous folder.
Each time you press the button consecutively, the previous folder is located, and the first file in the folder starts playback.

Selecting a disc/folder/track using the name lists

To select a disc using the disc lists

If you forget what discs are loaded in the CD changer, you can show the disc title list and select a disc in the list shown on the display.
• The display can show only six disc names at a time.

1 **While playing a disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.**
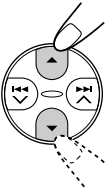
Selected disc number

Note:
If a disc has a disc title (CD Text) or an assigned disc name, it will be shown on the display. However, if the disc has not been played before, its disc number will appear.

2 **Press ▲ (up) or ▼ (down) to show the other disc name list, if necessary.**
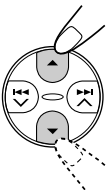
3 **Select the number (1 – 6) for the disc you want to play.**

While playing an MP3 disc, you can also show the folder list(s) and file list(s) on the display, then select a folder or file.

1 While playing an MP3 disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.

2 Press ►►I ∧ or I◄◄ ∨ to show a folder list of the current disc or file list of the current folder.
Each time you press the button, lists on the display changes as follows:

→ Disc list ◄—► Folder list ◄—
└► File (track) list ◄—
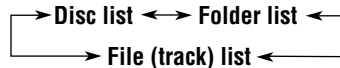
Current folder number

Ex.: When folder list is selected

Current track number
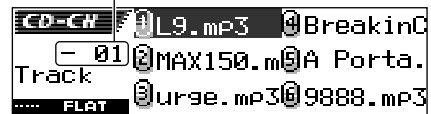
Ex.: When file list is selected

Note:
The display can shows only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).

3 Press the number button for the disc, folder, or file you want to play.

MP3
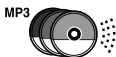
Selecting the playback modes

To play back tracks/files at random (Random Play)

1 Press M (MODE) during play.

MODE

"Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press number button 3 repeatedly while "Mode" is still on the display.
Each time you press the button, random play mode changes as follows:

For MP3 discs:

Random Folder → Random Disc → Random All → Random Off →(loop)

For CDs:

Random Disc → Random All → Random Off →(loop)

```
CD-CH
01- 03
00'03"
Random
Disc
INTRO  RPT  RND  OFF
 7    8    9    10   11   12
[1]  [2]  [3]  [4]  [5]  [6]
```
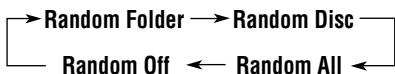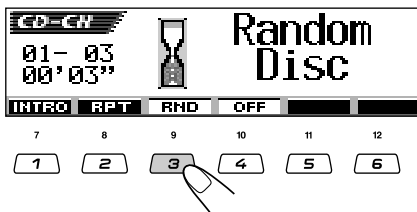
Ex.: When you select "Random Disc"

Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
Random Folder*	RND indicator lights up.	All files of the current folder, then files of the next folder and so on.
Random Disc	RND indicator lights up.	All tracks/files of the current (or specified) disc.
Random All	ALL RND indicator lights up.	All tracks/files of all discs inserted in the magazine.

* *"Random Folder" is only applicable for MP3 disc.*

To cancel random play, select "Random Off" by pressing number button 3 repeatedly or press number button 4 in step **2**.

To play back tracks/files repeatedly (Repeat Play)

1 Press M (MODE) during play.

MODE

"Mode" appears on the display. The next-step-operation buttons start flashing.

2 Press number button 2 repeatedly while "Mode" is still on the display.
Each time you press the button, repeat play mode changes as follows:

For MP3 discs:

Repeat Track → Repeat Folder → Repeat Disc → Repeat Off →(loop)

For CDs:

Repeat Track → Repeat Disc → Repeat Off →(loop)
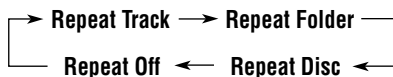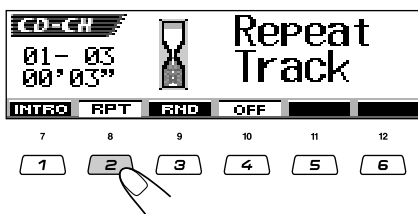
Ex.: When you select "Repeat Track"

Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays repeatedly
Repeat Track	♪ RPT indicator lights up.	The current (or specified) track/file.
Repeat Folder*	⌘ RPT indicator lights up.	All files of the current (or specified) folder of the current disc.
Repeat Disc	⌂ RPT indicator lights up.	All tracks/files of the current (or specified) disc.

* *"Repeat Folder" is only applicable for MP3 disc.*

To cancel repeat play, select "Repeat Off" by pressing number button 2 repeatedly or press number button 4 in step **2**.

To play back only intros (Intro Scan)

1 Press M (MODE) during play.

 "Mode" appears on the display.
The next-step-operation buttons start flashing.

2 Press number button 1 repeatedly while "Mode" is still on the display.
Each time you press the button, intro scan mode changes as follows:

For MP3 discs:

$$\text{Intro Track} \longrightarrow \text{Intro Folder} \longrightarrow \text{Intro Disc} \longrightarrow \text{Intro Off} \longrightarrow$$

For CDs:

$$\text{Intro Track} \longrightarrow \text{Intro Disc} \longrightarrow \text{Intro Off} \longrightarrow$$
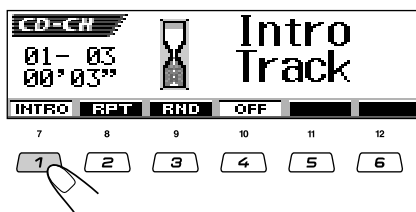
Ex.: When you select "Intro Track"

Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays the beginnings (15 seconds) of
Intro Track	♪ INT indicator lights up.	All tracks/files of the current disc.
Intro Folder*	⌘ INT indicator lights up.	The first file of every folder of the current disc.
Intro Disc	⌂ INT indicator lights up.	The first tracks/files of the inserted discs.

* *"Intro Folder" is only applicable for MP3 disc.*

To cancel intro scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.

Changing the display information

While playing back an MP3 file, you can change the MP3 disc information shown on the display.

Note:
When playing a CD or a CD Text, you can also change the disc information, see page 26 for details.

DISP

Each time you press the button, the display changes to show the following:

Large animation display

Small animation display 1

Current sound mode (iEQ) (see page 28)

Clock time

Small animation display 2
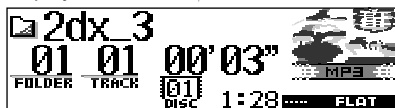
Small animation display 3
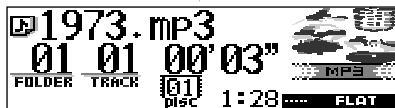
Clock time display

Small animation display 4
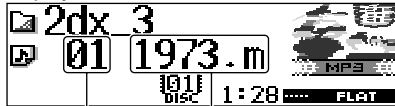
Current file number   File name

The above diagram shows the examples of the display when "Tag" is set to "Off."

Notes:
• *When the folder name is shown, the* ▭ *(folder) indicator lights up. When the file name is shown, the* ♫ *(file) indicator lights up.*
• *If the information cannot be shown at a time, it will scroll on the display.*
 Some characters or symbols will not be shown (will be blanked or substituted) on the display.
• *If "Tag" is set to "On" (see pages 33 and 34), ID3 tag information will appear on the display if the disc has an ID3 tag. The album name/performer and* ▦ *(disc) appears on the display instead of the folder name; while track title and* ♪ *(track) appears instead of the file name.*

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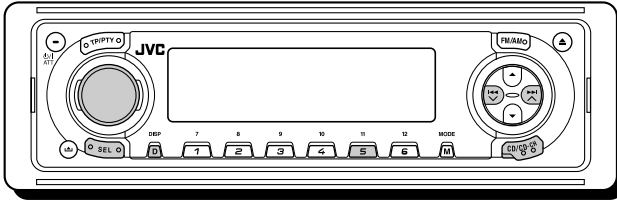
Playing an external component

You can connect the external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).

Preparation:

For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).

Before operating the external component, select the external input correctly, follow the procedure below.

• See also "Changing the general settings (PSM)" on pages 31 and 32.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 5 to select "AUDIO"— Audio category of the PSM settings.
3 Press ►►I ∧ or I◄◄ ∨ to select "Ext Input"*.
4 Turn the control dial clockwise to select "Line In."
5 Press SEL (select) to finish the setting.

• For details, see "To select the external component to use—Ext Input" on page 34.
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

Select the external component correctly, follow the procedure below.

1 Select the external component (Line In).
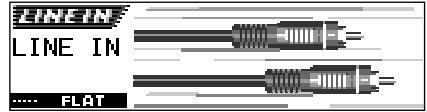
CD → Line In*

LINE IN

• If "Line In"* does not appear on the display, see page 34 and select the external input ("Line In") in the "Ext Input" setting.
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

Note on One-Touch Operation:

When you press CD/CD-CH, the power automatically comes on. You do not have to press ⏻/I/ATT to turn on the power.

2 Turn on the connected component and start playing the source.

3 Adjust the volume.
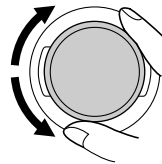
4 Adjust the sound characteristics as you want. (See pages 27 – 29.)

Note:

You can also change the display pattern by pressing D (DISP) repeatedly.

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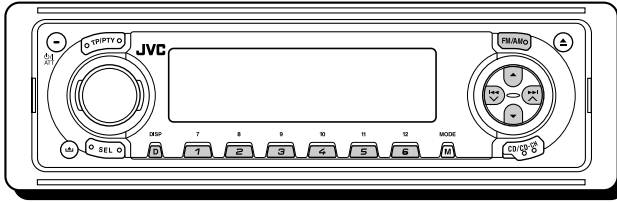
We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with your unit.
If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.
• Refer also to the Instructions supplied with your DAB tuner.

What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion.
Furthermore, it can carry text, pictures, and data.
In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble."
In addition, each "service"—called "primary service"—can also be divided into its components (called "secondary service").

With the DAB tuner connected with this unit, you can enjoy these DAB services.

Tuning in to an ensemble and one of the services

A typical ensemble has 6 or more programmes (services) broadcast at the same time. After tuning in to an ensemble, you can select a service you want to listen to.

Before you start....
Press FM/AM briefly if CD, CD changer, or external component is the current source.

1 Select the DAB tuner.

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 Select the DAB band (DAB1, DAB2, or DAB3).

Each time you press the button, the DAB band changes as follows:

DAB1 → DAB2 → DAB3

Note:
This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any of them to tune in to an ensemble.

3 Start searching for an ensemble.

To search for ensembles of higher frequency.
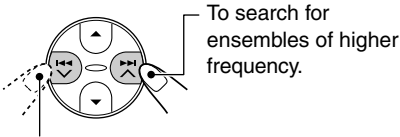
To search for ensembles of lower frequency.

When an ensemble is received, searching stops.

To stop searching before an ensemble is received, press the same button you have pressed for searching.

4 Select a service (either primary or secondary) you want to listen to.

To select the next service. (If a primary service has some secondary services, they are selected before the next primary service is selected.)
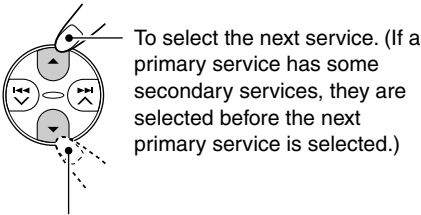
To select the previous service (either primary or secondary).

To tune in to a particular ensemble without searching

Before you start....
Press FM/AM briefly if CD, CD changer, or external component is the current source.

1 Press and hold FM/AM to select DAB tuner as the source.
2 Press FM/AM repeatedly to select the DAB band (DAB1, DAB2, or DAB3).
3 Press and hold ►►I ∧ or I◄◄ ∨ for more than one second.
4 Press ►►I ∧ or I◄◄ ∨ repeatedly until the ensemble you want is reached.
   • If you hold down the button, the frequency keeps changing until you release the button.
5 Press ▲ (up) or ▼ (down) to select a service (either primary or secondary) you want to listen to.

To restore the FM/AM tuner

Press and hold FM/AM again.

Storing DAB services in memory

You can preset up to 6 DAB services in each DAB band (DAB1, DAB2, and DAB3) manually.

Before you start....
Press FM/AM briefly if CD, CD changer, or external component is the current source.

1 Select the DAB tuner.

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 Select the DAB band (DAB1, DAB2, or DAB3) you want.

Each time you press the button, the DAB band changes as follows:

DAB1 → DAB2 → DAB3

3 Tune in to an ensemble you want.
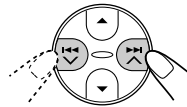
4 Select a service of the ensemble you want to listen to.
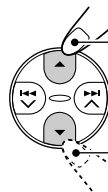
To select the next service.

To select the previous service.

5 **Press and hold the number button (in this example, 1) you want to store the selected service into for more than 2 seconds.**

The display pattern automatically changes to the non-animation display and the preset number flashes (then the previous display pattern resumes).

6 **Repeat the above procedure to store other DAB services into other preset numbers.**

Notes:
- *You can only preset primary DAB services. If you store a secondary service, its primary service will be stored instead.*
- *A previously preset DAB service is erased when a new DAB service is stored in the same preset number.*

Tuning in to a preset DAB service

You can easily tune in to a preset DAB service. Remember that you must store services first. If you have not stored them yet, "Storing DAB services in memory" on pages 49 and 50.

Before you start....
Press FM/AM briefly if CD, CD changer, or external component is the current source.

1 **Select the DAB tuner.**

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 **Select the DAB band (DAB1, DAB2, or DAB3) you want.**

Each time you press the button, the DAB band changes as follows:

→ **DAB1** → **DAB2** → **DAB3** ⌐

3 **Select the number (1 – 6) for the preset DAB service (primary) you want.**
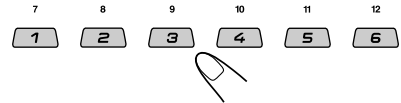
Note:
If the selected primary service has some secondary services, pressing the same number button repeatedly will tune in to the secondary services.

Selecting a preset service using the preset service list

If you forget what services are stored in what preset number, you can check the preset service list, then select your desired service on the list.

1 **Select the DAB tuner.**

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB ←→ FM/AM

2 **Select the DAB band (DAB1, DAB2 or DAB3) you want.**

Each time you press the button, the DAB band changes as follows:

→ **DAB1** → **DAB2** → **DAB3** ⌐

3 **Press and hold ▲ (up) or ▼ (down) until the preset ensemble (primary service) list for the current band (DAB1, DAB2, or DAB3) appears on the display.**
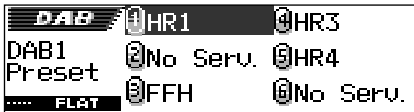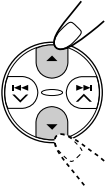
Note:
You can show the other DAB band preset ensemble (primary service) lists (DAB1, DAB2, or DAB3) by pressing ▲ (up) or ▼ (down).

4 **Select the number (1 – 6) for a service you want.**
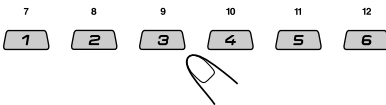
What you can do more with DAB

With the DAB tuner connected, you can tracing the same program (service) automatically while driving where the same DAB ensemble is not received.

Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program.
• **While receiving a DAB service:**
  When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same program.
• **While receiving an FM RDS station:**
  When driving in an area where a DAB service is broadcasting the same program as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.
• See also "Changing the general settings (PSM)" on pages 31 and 32.
1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 4 to select "TUNER"— Tuner category of the PSM settings.
3 Press ▶▶I ∧ or I◀◀ ∨ to select "DAB AF" (alternative frequency).
4 Turn the control dial to select the desired mode.
  • On: Traces the program among DAB services and FM RDS stations —Alternative Reception. The AF indicator lights up on the display (see page 15).
  • Off: Alternative Reception is deactivated.
5 Press SEL (select) to finish the setting.

Note:
When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 15) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

Changing the display information

By pressing D (DISP), you can change the information shown on the display.
Each time you press the button, the display patterns change as follows:

Large animation display

Text indicator*1

Ensemble label (name) display

Ensemble label and Frequency   Clock time   Channel number

Service label (name) display   PTY code*2

*3

Service label

Dynamic Label Segment (DLS) display*4

Clock time display

*1 *TEXT indicator: implies the current service received is providing DLS (Dynamic Label Segment—DAB radio text information).*
*2 *Each service can have several PTY codes. If a service have several PTY codes, they will be shown in turn.*
*3 *Ensemble label (primary service) indicator: The different indicator (2nd) will be displayed when the secondary service is selected.*
*4 *Dynamic Label Segment (DLS) will be displayed. See "To select the scroll mode for disc information and the DAB text—Scroll" on page 33.*

Sound modes (preset frequency level settings)

The list below shows the preset frequency level settings for each sound mode.
• You can adjust the preset sound modes temporarily. However, your temporary adjustments will be reset when you select another sound mode.

Sound Mode	Preset equalizing values						
	60 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12 kHz
Flat	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
Pop	00	+02	00	00	+01	+01	+02
Jazz	+03	+02	+01	+01	+01	+03	+02
Dance Music	+04	+02	00	−02	−01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
User 1	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00

Available characters

In addition to the alphabets (A – Z, a – z), you can use the following characters to assign names to CDs and external component. (See page 38.)
• These characters can be also used to show other information such as disc title/performer, RDS, and DAB on the display.

Accented letters

Upper case

Á	À	Â	Ä	Ã
Å	Æ	Œ	Č	Ć
Ç	É	È	Ê	Ë
Ğ	í	ì	î	ï
Ñ	Ó	Ò	Ô	Ö
Õ	Ø	Ř	Ŕ	Š
Ś	Ş	Ú	Ù	Û
Ü	Ý	Ž	Ź	ß
Þ	Ŋ	Đ	Ŧ	Ł
İ	Ĳ	ð	space	

Lower case

á	à	â	ä	ã
å	æ	œ	č	ć
ç	é	è	ê	ë
ě	ğ	í	ì	î
ï	ñ	ň	ń	ó
ò	ô	ö	õ	ø
ő	ř	ŕ	š	ś
ş	ú	ù	û	ü
ű	ŵ	ý	ŷ	ž
ź	ÿ	þ	ŋ	đ
ŧ	ľ	ı	ĳ	space

Numbers and symbols

0	1	2	3	4
5	6	7	8	9
!	”	#	$	%
&	'	(	)	*
+	,	−	.	/
:	;	<	=	>
?	@	_	`	¡
¿	£	€	α	space

?!. TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Causes	Remedies
General	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• This unit does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)
	• "Panel Connect Error" appears on the display.	The control panel is not attach correctly and firmly.	Remove the control panel, wipe the connectors, then attach it again. (See page 39.)
	• "Movie" category settings in the PSM do not take effect.	Temperature in the car compartment is very low— 🔳 (LOW TEMP.) indicator appears.	Wait until the operating temperature resumes—until 🔳 (LOW TEMP.) indicator goes off.
FM/AM	• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The aerial is not connected firmly.	Connect the aerial firmly.
CD Playback	• CD cannot be played back.	CD is inserted upside down.	Insert the CD correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• CD cannot be ejected.	CD is locked.	Unlock the CD. (See page 25.)
	• CD cannot be recognised ("No Disc," "Loading Error," or "Eject Error" flashes on the display.)	The CD player may function incorrectly.	While holding CD/CD-CH, press SEL (select) for more than 2 seconds to eject the CD.
	• CD sound is sometimes interrupted.	You are driving on rough roads.	Stop playback while driving on rough roads.
		CD is scratched.	Change the CD.
		Connections are incorrect.	Check the cords and connections.
	• "No Disc" flashes on the display.	No CD in the loading slot.	Insert a CD into the loading slot.
		CD is inserted incorrectly.	Insert the CD correctly.

Symptoms	Causes	Remedies	
• "No Disc" flashes on the display.	No disc is in the magazine.	Insert discs into the magazine.	
	Discs are inserted upside down.	Insert discs correctly.	
	Discs are unplayable.	Insert playable discs.	
• "No Magazine" flashes on the display.	No magazine is loaded in the CD changer.	Insert the magazine.	
• "No Files" flashes on the display.	The current disc does not contain any MP3 files.	Insert a disc that contains MP3 files.	
• MP3 disc is skipped or cannot be played back.	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code —mp3 to their file names.	
	MP3 files are not recorded in the format compliant with ISO 9660 Level 1, Level 2, or Joliet.	Change the disc. (Record MP3 files using a compliant application.)	
• Noise is generated while playing an MP3 disc.	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non-MP3 files.)	
• A longer readout time is required for an MP3 disc ("File Check" keeps flashing on the display).	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders. Also, do not record any other types of audio tracks together with MP3 files.	CD Changer
• MP3 files cannot be played back as you have intended them to play.	Playback order is determined when the files are recorded.	———————	
• Elapsed playing time is not correct for an MP3 disc.	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	———————	
• "Reset 08" flashes on the display.	This unit is not connected to the CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.	
• "Reset 01" – "Reset 07" flashes on the display.	———————	Press the reset button of the CD changer.	
• The CD changer does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)	

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🅿🅻 MAINTENANCE

Handling discs

This unit has been designed to reproduce CDs, CD-Rs (Recordable), CD-RWs (Rewritable), and CD Texts.
• **This unit is not compatible with MP3 discs,** but can operate a JVC MP3-compatible CD changer.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder

• Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).
• Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:
• After starting the heater in the car.
• If it becomes very humid inside the car.
Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

When playing a CD-R or CD-RW

Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
• Use only "finalized" CD-Rs or CD-RWs.
• Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, and for the following reasons:
  – Discs are dirty or scratched.
  – Moisture condensation on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
• CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
• CD-Rs or CD-RWs are susceptible to high temperatures or high humidity, so do not leave them inside your car.
• Do not use following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.
Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,
  – Stickers or labels may shrink and warp a disc.
  – Stickers or labels may peel off so discs cannot be ejected.
  – Print on discs may get sticky.
Read instructions or cautions about labels and printable discs carefully.

CAUTIONS:
• *Do not insert 8 cm discs (single CDs) into the loading slot. (Such discs cannot be ejected.)*
• *Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.*
• *Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
• *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.*

Warped disc ✕   Sticker ✕ Sticker residue   Disc ✕ Stick-on label

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
  Front: 50 W per channel
  Rear: 50 W per channel
Continuous Power Output (RMS):
  Front: 19 W per channel into 4 Ω, 40 Hz
            to 20 000 Hz at no more than
            0.8% total harmonic distortion.
  Rear: 19 W per channel into 4 Ω, 40 Hz
            to 20 000 Hz at no more than
            0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:
  Frequencies: 60 Hz, 150 Hz, 400 Hz,
               1 kHz, 2.4 kHz, 6 kHz, 12 kHz
  Level: ±10 dB
Frequency Response: 40 Hz to 20 000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance:
  2.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ

TUNER SECTION

Frequency Range:
  FM: 87.5 MHz to 108.0 MHz
  AM: (MW) 522 kHz to 1 620 kHz
           (LW) 144 kHz to 279 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz): 65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

[MW Tuner]
Sensitivity: 20 µV
Selectivity: 35 dB

[LW Tuner]
Selectivity: 50 µV

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical
        pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 Hz to 20 000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit

GENERAL

Power Requirement:
  Operating Voltage:
      DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature:
      0°C to +40°C
Dimensions (W × H × D):
  Installation Size (approx.):
      182 mm × 52 mm × 150 mm
  Panel Size (approx.):
      188 mm × 58 mm × 12 mm
  Mass (approx.):
      1.4 kg (excluding accessories)

*Design and specifications are subject to change
without notice.*

About mistracking:
*Mistracking may result from driving on extremely
rough roads. This does not damage the unit and
the disc, but will be annoying.
We recommend that you stop disc play while
driving on such rough roads.*

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?
Bitte setzen Sie Ihr Gerät zurück
Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement?
Réinitialisez votre appareil
Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening?
Stel het apparaat terug
Zie de pagina met de paragraaf Het apparaat terugstellen

JVC
VICTOR COMPANY OF JAPAN, LIMITED

JVC

KD-LH3101/KD-LH1101
Installation/Connection Manual
Einbau/Anschlußanleitung
Manuel d'installation/raccordement
Handleiding voor installatie/aansluiting

GET0151-004A
[E/EX]
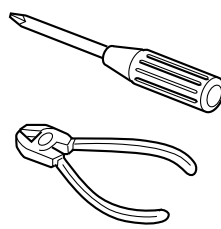
ENGLISH

• This unit is designed to operate on 12 V DC, NEGATIVE ground electrical systems.

INSTALLATION (IN-DASH MOUNTING)

• The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

1 Before mounting: Press ▲ (control panel release button) to detach the control panel if already attached.
  * When shipped from the factory, the control panel is packed in the hard case.

2 Remove the trim plate.

3 Remove the sleeve after disengaging the sleeve locks.
  ① Stand the unit.
  Note: When you stand the unit, be careful not to damage the fuse on the rear.
  ② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.
  ③ Remove the sleeve.
  Note: Be sure to keep the handles for future use after installing the unit.

4 Install the sleeve into the dashboard.
  * After the sleeve is correctly installed into the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

6 Do the required electrical connections.

7 Slide the unit into the sleeve until it is locked.

8 Attach the trim plate.

9 Attach the control panel.

DEUTSCH

• Dieses Gerät ist für einen Betrieb in elektrischen Anlagen mit 12 V Gleichstrom und (–) Erdung ausgelegt.

EINBAU (IM ARMATURENBRETT)

• Die folgende Abbildung zeigt einen typischen Einbau. Dennoch müssen Sie entsprechend Ihrem jeweiligen Auto Anpassungen vornehmen. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.

1 Vor dem Einbau: Drücken Sie ▲ (Freigabe der Schalttafel), um die Arretierung der Schalttafel zu lösen, sofern diese bereits angebracht ist.
  * Bei der Auslieferung ab Werk ist die Schalttafel im Etui verpackt.

2 Den Frontrahmen herausnehmen.

3 Die Halterung nach dem Entriegeln der Halterungensperren abnehmen.
  ① Das Gerät aufstellen.
  Hinweis: Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.
  ② Die 2 Griffe zwischen dem Gerät und der Halterung wie abgebildet einstecken und die Halterungensperren entriegeln.
  ③ Die Halterung entfernen.
  Hinweis: Sicherstellen, daß die Griffe für künftigen Gebrauch nach dem Einbau des Geräts aufbewahrt werden.

4 Die Halterung im Armaturenbrett einbauen.
  * Nach dem korrekten Einbau der Halterung im Armaturenbrett, die entsprechenden Riegel umknicken, um die Halterung an ihrem Platz zu sichern, siehe Abbildung.

5 Die Befestigungsschraube an der Rückseite des Gerätekörpers befestigen und das Ende der Schraube mit einem Gummipuffer abdecken.

6 Nehmen Sie die erforderlichen elektrischen Anschlüsse vor.

7 Das Gerät in die Halterung schieben, bis es einrastet.

8 Befestigen Sie den Frontrahmen.

9 Die Schalttafel anbringen.

FRANÇAIS

• Cet appareil est conçu pour fonctionner sur des sources de courant continu de 12 V à masse NEGATIVE.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

• L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

1 Avant le montage: Appuyer sur ▲ (déblocage du panneau de commande) pour éventuellement détacher le panneau de commande.
  * Lorsque ce panneau de commande sort d'usine, il est rangé dans un étui de transport.

2 Retirer la plaque d'assemblage.

3 Libérer les verrous du manchon et retirer le manchon.
  ① Poser l'appareil à la verticale.
  Remarque: Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
  ② Insérer les 2 poignées entre l'appareil et le manchon comme indiqué pour désengagé les verrous de manchon.
  ③ Retirer le manchon.
  Remarque: S'assurer de garder les poignées pour une utilisation ultérieur, après l'installation de l'appareil.

4 Installer le manchon dans le tableau de bord.
  * Après installation correcte du manchon dans le tableau de bord, plier les bonnes pattes pour maintenir fermement le manchon en place, comme montré.

5 Monter le boulon de montage sur l'arrière du corps de l'appareil puis passer l'amortisseur en caoutchouc sur l'extrémité du boulon.

6 Réalisez les connexions électriques.

7 Faire glisser l'appareil dans le manchon jusqu'à ce qu'il soit verrouillé.

8 Attachez la plaque d'assemblage.

9 Remonter le panneau de commande.

NEDERLANDS

• Dit apparaat mag worden gebruikt bij elektrische systemen die werken op 12 V gelijkstroom met negatieve aarding.

INSTALLATIE (INBOUW IN HET DASHBOARD)

• Op de volgende afbeelding kunt u zien hoe de installatie, normaal gesproken, in zijn werk gaat. U moet echter bij de installatie rekening houden met de bijzonderheden van uw eigen auto. Neem bij vragen of voor meer bijzonderheden over inbouwpakketten contact op met uw JVC car audio dealer of een dealer of een bedrijf dat inbouwpakketten levert.

1 Voordat u aan de montage van het apparaat begint: Druk op ▲ (het bedieningspaneel vrijgeven) als u het bedieningspaneel wilt loskoppelen indien dit aan de eenheid is vastgekoppeld.
  * Standaard wordt het bedieningspaneel bij het verlaten van de fabriek los verpackt meegeleverd.

2 Verwijder de sierplaat.

3 Verwijder het huis nadat u de klemmen hebt losgemaakt.
  ① Zet het apparaat rechtop.
  Opmerking: Wanneer u het apparaat rechtop zet, moet u erop letten dat u de zekering aan de achterkant niet beschadigt.
  ② Plaats de 2 hendels, zoals afgebeeld, tussen het apparaat en het huis, om de klemmen los te maken.
  ③ Verwijder het huis.
  Opmerking: Bewaar de hendels nadat u het apparaat hebt geïnstalleerd, zodat u ze ook in de toekomst kunt gebruiken.

4 Installeer het huis in het dashboard.
  * Nadat het huis op de juiste wijze in het dashboard is geplaatst, moet u de palletjes, zoals afgebeeld, stevig op hun plaats duwen.

5 Maak de bevestigingsbout aan de achterkant van het apparaat vast en plaats de rubberdop over het uiteinde van de bout.

6 Breng de vereiste elektrische verbindingen tot stand.

7 Schuif het apparaat in het huis totdat het vergrendeld is.

8 Bevestig een sierplaat.

9 Bevestig het bedieningspaneel.

---

1 Control panel
Schalttafel
Panneau de commande
Bedieningspaneel

2 Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

Dashboard
Armaturenbrett
Tableau de bord
Dashboard

Rubber cushion
Gummipuffer
Amortisseur en caoutchouc
Rubberdop

Sleeve
Halterung
Manchon
Huis

4

5

7

Mounting bolt
Befestigungsschraube
Boulon de montage
Bevestigingsbout

8

184 mm

53 mm

3 Handle
Griff
Poignée
Hendel

Slot
Schlitz
Fente
Sleuf

Fuse
Sicherung
Fusible
Zekering

Lock Plate
Arretierplättchen
Plaque de verrouillage
Vergrendelingsplaat

Sleeve
Halterung
Manchon
Huis

9

Control panel
Schalttafel
Panneau de commande
Bedieningspaneel

Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

4 *

6 See "ELECTRICAL CONNECTIONS."
Siehe „ELEKTRISCHE ANSCHLÜSSE".
Référez-vous "RACCORDEMENTS ELECTRIQUES".
Zie "ELEKTRISCHE VERBINDINGEN".

TROUBLESHOOTING

• **The fuse blows.**
* Are the red and black leads connected correctly?

• **Power cannot be turned on.**
* Is the yellow lead connected?

• **No sound from the speakers.**
* Is the speaker output lead short-circuited?

• **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

• **Unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

FEHLERSUCHE

• **Die Sicherung brennt durch.**
* Sind die roten und schwarzen Leitungen richtig angeschlossen?

• **Stromversorgung kann nicht eingeschaltet werden.**
* Ist die gelbe Leitung angeschlossen?

• **Kein Ton aus den Lautsprechern.**
* Ist die Lautsprecherausgangsleitung kurzgeschlossen?

• **Ton verzerrt.**
* Ist die Lautsprecherausgangsleitung geerdet?
* Sind die (–) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

• **Gerät wird heiß.**
* Ist die Lautsprecherausgangsleitung geerdet?
* Sind die (–) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

EN CAS DE DIFFICULTES

• **Le fusible saute.**
* Les fils rouge et noir sont-ils racordés correctement?

• **L'appareil ne peut pas être mise sous tension.**
* Le fil jaune est-elle raccordée?

• **Pas de son des enceintes.**
* Le fil de sortie d'enceinte est-il court-circuité?

• **Le son est déformé.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?

• **L'appareil devient chaud.**
* Le fil de sortie d'enceinte est-il à la masse?
* Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?

PROBLEMEN OPLOSSEN

• **De zekering slaat door.**
* Zijn de rode en de zwarte draden op de juiste manier aangesloten?

• **De stroom kan niet worden ingeschakeld.**
* Is de gele draad aangesloten?

• **Er komt geen geluid uit de speakers.**
* Is de uitgaande speakerdraad kortgesloten?

• **Het geluid wordt vervormd.**
* Is de uitgaande speakerdraad geaard?
* Zijn de "–" polen van de linker- en de rechterspeakers gemeenschappelijk geaard?

• **Het apparaat raakt verhit.**
* Is de uitgaande speakerdraad geaard?
* Zijn de "–" polen van de linker- en de rechterspeakers gemeenschappelijk geaard?

- **When using the optional stay**
- **Beim Verwenden der Anker-Option**
- **Lors de l'utilisation du hauban en option**
- **Wanneer u de steun gebruikt (facultatief)**

Washer
Unterlegscheibe
Rondelle
Sluitring

Fire wall
Feuerwand
Cloison
Brandscherm

Stay (option)
Anker (Option)
Hauban (en option)
Steun (facultatief)

Dashboard
Armaturenbrett
Tableau de bord
Dashboard

Lock nut
Sicherungsmutter
Ecrou d'arrêt
Contra-moer

Screw
Schraube (Option)
Vis (en option)
Schroef (facultatief)

Sleeve
Halterung
Manchon
Huis

Mounting bolt
Befestigungsschraube
Boulon de montage
Bevestigingsbout

Less than 30°
Weniger als 30°
Moins de 30°
Kleiner dan 30°
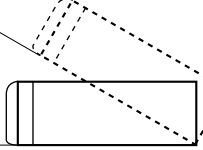
Install the unit at an angle of less than 30°.
Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf.
Installez l'appareil avec un angle de moins de 30°.
Installeer het toestel met een hoek kleiner dan 30°.

- **When installing the unit without using the sleeve**
- **Beim Einbau des Geräts ohne Halterung**
- **Lors de l'installation de l'appareil scans utiliser de manchon**
- **Wanneer u het apparaat zonder huis installeert**

In a Toyota for example, first remove the car radio and install the unit in its place.
Zum Beispiel in einem Toyota zuerst das Autoradio ausbauen und dann das Gerät an seinem Platz einbauen.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.
Voorbeeld: Bij een Toyota moet u eerst de autoradio verwijderen en daarna het apparaat installeren.

Flat type screws (M5 x 6 mm)*
Senkkopfschrauben (M5 x 6 mm)*
Vis à tête plate (M5 x 6 mm)
Platkopschroeven (M5 x 6 mm)*

Bracket*
Konsole*
Support
Console*

Pocket
Taschen
Poche
Zak

Bracket*
Konsole*
Support
Console*

* Not included with this unit.
* Nicht Teil dieses Geräts.
* *Non fourni avec cet appareil.*
* Niet meegeleverd.

Flat type screws (M5 x 6 mm)*
Senkkopfschrauben (M5 x 6 mm)*
Vis à tête plate (M5 x 6 mm)
Platkopschroeven (M5 x 6 mm)*

Note	:	When installing the unit on the mounting bracket, make sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.
Hinweis	:	Beim Anbringen des Gerät an der Konsole sicherstellen, daß 6 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.
Remarque	:	*Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 6 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*
Opmerking	:	Wanneer u het apparaat aan de bevestigingsklem vastmaakt, moet u de 6 mm lange schroeven gebruiken. Als u langere schroeven gebruikt, kan het apparaat worden beschadigd.

Removing the unit
- Before removing the unit, release the rear section.
1. Remove the control panel.
2. Remove the trim plate.
3. Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

Ausbau des Geräts
- Vor dem Ausbau des Geräts den hinteren Teil freigeben.
1. Den Schalttafel abnehmen.
2. Den Frontrahmen herausnehmen.
3. Die 2 Griffe in die Schlitze wie gezeigt stecken. Dann die Griffe behutsam auseinander ziehen und das Gerät herausziehen. **(Die Griffe nach dem Einbau auf jeden Fall aufbewahren.)**

Retrait de l'appareil
- *Avant de retirer l'appareil, libérer la section arrière.*
1. *Retirer le panneau de commande.*
2. *Retirer la plaque d'assemblage.*
3. *Introduire les 2 poignées dans les fentes, comme montré. Puis, tout en tirant doucement les poignées écartées, faire glisser l'appareil pour le sortir. (S'assurer de conserver les poignées après l'installation de l'appareil.)*

Verwijderen van het apparaat
- Voordat u het apparaat verwijdert, moet u het achtergedeelte losmaken.
1. Verwijder het bedieningspaneel.
2. Verwijder de sierplaat.
3. Plaats de 2 hendels, zoals afgebeeld, in de sleuven. Daarna duwt u de hendels zachtjes uit elkaar en kunt u het apparaat naar buiten schuiven. **(Bewaar de hendels nadat u het apparaat hebt geïnstalleerd!)**

1

Control panel
Schalttafel
Panneau de commande
Bedieningspaneel

2

Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat

3

Handle
Griff
Poignée
Hendel
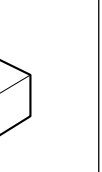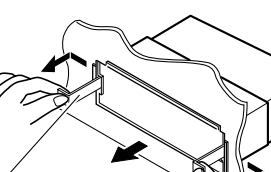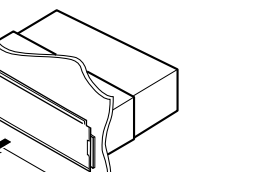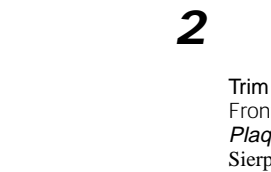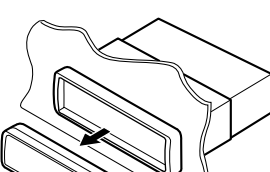
Parts list for installation and connection
The following parts are provided with this unit. After checking them, please set them correctly.

Teileliste für den Einbau und Anschluß
Die folgenden Teile werden zusammen mit diesem Gerät geliefert.
Nach ihrer Überprüfung, die Teile richtig einsetzen.

Liste des pièces pour l'installation et raccordement
Les pièces suivantes sont fournies avec cet appareil. Après vérification, veuillez les placer correctement.

Lijst van onderdelen die u bij installatie en aansluiting nodig hebt
De volgende onderdelen worden bij het apparaat geleverd. Installeer ze op de juiste wijze, nadat u ze hebt gecontroleerd.

Hard case/Control panel
Etui/Schalttafel
Etui de transport/Panneau de commande
Behuizing/Bedieningspaneel
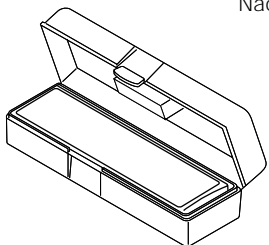
Sleeve
Halterung
Manchon
Huis
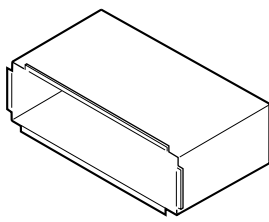
Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat
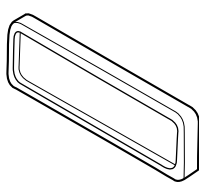
Power cord
Stromkabel
Cordon d'alimentation
Stroomkabel
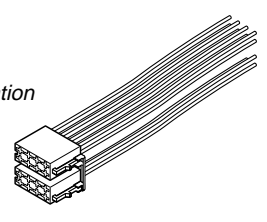
Handles
Griffe
Poignées
Hendels
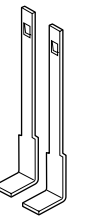
Only for KD-LH3101 /
Nur für KD-LH3101 /
Seulement pour le KD-LH3101 /
Uitsluitend voor de KD-LH3101
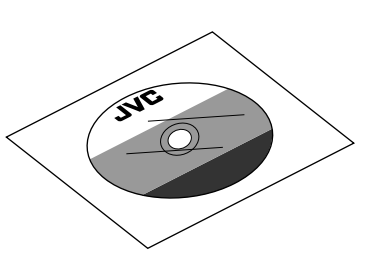
CD-ROM (Image Converter)
CD-ROM (Image Converter)
CD-ROM (Image Converter)
CD-ROM (Image Converter)

Washer (ø5)
Unterlegscheibe(ø5)
Rondelle (ø5)
Sluitring (ø5)

Lock nut (M5)
Sicherungsmutter (M5)
Ecrou d'arrêt (M5)
Contra-moer (M5)

Rubber cushion
Gummipuffer
Amortisseur en caoutchouc
Rubberdop

Mounting bolt (M5 x 20 mm)
Befestigungsschraube (M5 x 20 mm)
Boulon de montage (M5 x 20 mm)
Bevestigingsbout (M5 x 20 mm)

Battery
Batterie
Pile
Batterij
CR2025

Remote controller
Fernbedienung
Télécommande
Afstandsbediening
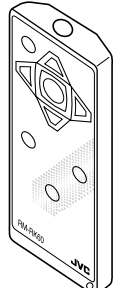
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:
This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems.** If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (see connection diagram) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC IN-CAR ENTERTAINMENT dealer.
- Maximum input of the speakers should be more than 50 W at the rear and 50 W at the front, with an impedance of **4 Ω to 8 Ω.**
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

Heat sink
Abstrahlblech
Dissipateur de chaleur
Warmte-opnemer
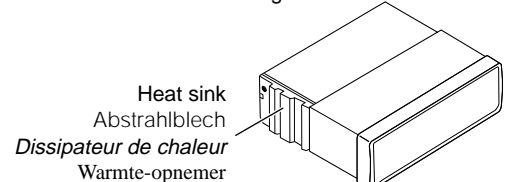
ELEKTRISCHE ANSCHLÜSSE

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird. Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

Hinweis:
Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (–) Erdung ausgelegt.** Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Sind Störgeräusche ein Problem...
  Dieses Gerät enthält ein Störfilter im Stromkreis. Bei manchen Fahrzeugen kann jedoch ein Klicken oder andere unerwünschte Störgeräusche auftreten. Sollte das der Fall sein, die **hintere Erdungsanschlußklemme** (siehe Schaltplan) des Geräts am Fahrwerk des Fahrzeugs anschließen, dabei kürzere und dickere Kabel wie beispielsweise Kupfergeflechtdraht oder Stahldraht verwenden. Bleibt Störgeräusch bestehen, wenden Sie sich an Ihren JVC Autoradiohändler.
- Die maximale Eingangsleistung der Lautsprecher sollte mehr als 50 W hinten und 50 W vorn bei einer Impedanz von **4 Ω bis 8 Ω** betragen.
- **Sicherstellen, daß das Gerät am Fahrwerk geerdet wird.**
- Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

Remarque:
*Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Si le bruit est un problème...*
  *Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne arrière de masse** de l'appareil au châssis de la voiture (voir le diagramme de raccordement) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des enceintes devrait supérieure à 50 W à l'arrière et à 50 W l'avant, avec une impédance de 4 Ω à 8 Ω.*
- ***S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.***
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

ELEKTRISCHE VERBINDINGEN

Om kortsluiting te voorkomen adviseren wij u om de minpool van de accu los te maken en alle elektrische verbindingen tot stand te brengen voordat u het apparaat in de auto installeert. Als u niet zeker weet hoe u dit apparaat moet installeren, kunt u dit beter door een daartoe gekwalificeerde technicus laten doen.
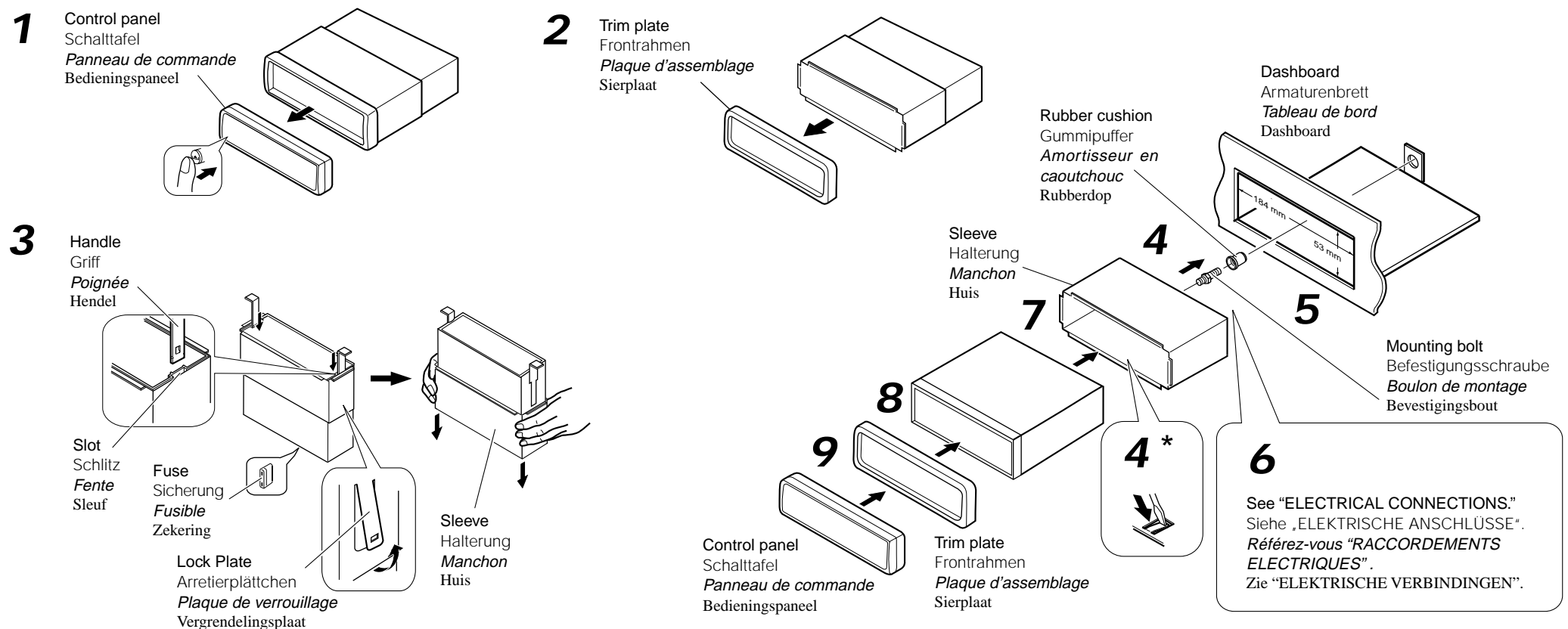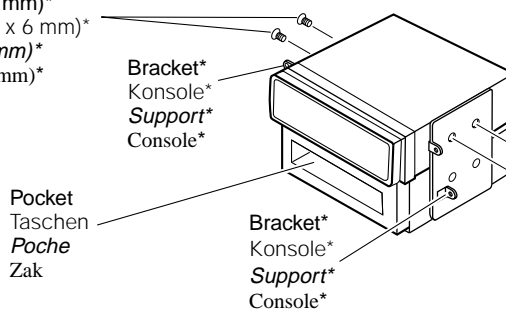
Opmerking:
Dit apparaat mag worden gebruikt bij elektrische systemen die werken op **12 V gelijkstroom met negatieve aarding.** Als uw auto niet is uitgerust met een dergelijk systeem, is een spanningsomzetter vereist. Dit instrument kan worden aangeschaft bij JVC car audio dealers.

- Vervang de zekering door een exemplaar met het aangegeven vermogen. Als de zekering vaak doorslaat, moet u uw JVC car audio dealer raadplegen.
- Als u geluidsproblemen hebt…
  De krachtschakeling van dit apparaat heeft een ingebouwd geluidsfilter. In sommige voertuigen zijn tikgeluiden of andere ongewenste geluiden te horen. Als dit gebeurt, moet u de **massaklem aan de achterkant** (zie aansluitingsschema) aan het chassis van de auto vastmaken met behulp van een kortere en dikkere kabel, zoals kopermanteldraad of tellerkabel. Als het geluid niet verdwijnt, moet u contact opnemen met uw JVC car audio dealer.
- Het maximum ingangsvermogen van de speakers moet achterin meer dan 50 W zijn en voorin 50 W, met een impedantie van **4 Ω tot 8 Ω.**
- **Zorg ervoor dat dit apparaat door middel van een aardkabel is verbonden met het chassis van de auto.**
- De warmte-opnemer kan na gebruik erg heet worden. Raak de warmte-opnemer niet aan wanneer u dit apparaat van zijn plaats haalt.

A Typical Connections / Typische Anschlüsse / Raccordements typiques / Normale verbindingen

ENGLISH

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord to the car battery, speakers and power aerial (if any) in the following sequence.
① Black: ground
② Yellow: to car battery (constant 12 V)
③ Red: to an accessory terminal
④ Blue with white stripe: to remote lead of other equipment or power aerial if any (200 mA max.)
⑤ Orange with white stripe: to car light control switch
⑥ Brown: to cellular phone system (For details, refer to the instructions of the cellular phone.)
⑦ Others: to speakers

2 Connect the aerial cord.

3 Finally connect the wiring harness to the unit.

Note: If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.
• The yellow lead (A4) is not used in this case.

DEUTSCH

Vor dem Anschließen: Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen.
Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.

1 Die farbigen Leitungen des Spannungsversorgungskabels an der Autobatterie, ontstelezuschakelaarden Lautsprechern und dem Motorantenne (sofern vorhanden) in folgender Reihenfolge anschließen.
① Schwarz: Erdung
② Gelb: an Autobatterie (konstant 12 V)
③ Rot: zur einer Zubehöranschlußklemme
④ Blau mit weißem Streifen: zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden (max. 200 mA)
⑤ Orange mit weißem Streifen: zum Autolichtschalter
⑥ Braun: an Mobiltelefon (Weitere informationen entnehmen Sie bitte der Bedienungscanleitung des Mobiltelefons.)
⑦ Andere: zur Lautsprecher

2 Das Antennenkabel anschließen.

3 Die Kabelbäume am Gerät anschließen.

Hinweis: Verfügt Ihr Fahrzeug nicht über eine Zubehöranschlußklemme, die Sicherung von der 1. Sicherungsposition (Erstposition) in die 2. Sicherungsposition versetzen, die rote Leitung (A7) an der (+) Batterieanschlußklemme anschließen.
• Die gelbe Leitung (A4) wird in diesem Fall nicht verwendet.

FRANÇAIS

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil. Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.*

1 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*
① *Noir: à la masse*
② *Jaune: à la batterie de la voiture (12 V constant)*
③ *Rouge: à une borne accessoire*
④ *Bleu avec bande blanche: au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une (200 mA max.)*
⑤ *Orange avec bande blanche: à l'interrupteur d'éclairage de la voiture*
⑥ *Marron: à un système de téléphone cellulaire (Pour les détails, se référer aux instructions du téléphone cellulaire.)*
⑦ *Autres: aux enceintes*

2 *Connectez le cordon d'antenne.*

3 *Finalement, connectez le faisceau de fils à l'appareil.*

Remarque: *Si votre véhicule ne possède pas de borne accessoire, déplacez le fusible de la position de fusible 1 (position originale) à la position de fusible 2 et connectez le fil rouge (A7) à la borne positive (+) de la batterie.*
• *Le fil jaune (A4) n'est pas utilisé dans ce cas.*

NEDERLANDS

Alvorens te verbinden: Controleer de bedrading in de auto zorgvuldig. Het apparaat kan door verkeerde verbinding ernstige schade oplopen. De draden van het stroomsnoer verschillen mogelijk van kleur met de aansluitingen op het chassis van de auto.

1 Sluit de gekleurde snoerdraden van de stroomkable in de hierna genoemde volgorde aan op de accu van de auto, de luidsprekers en de antenne (indien aanwezig).
① Zwart: aarde
② Geel: naar de accu van de auto (constant 12 V)
③ Rood: naar de aansluitklem van de accessoire
④ Blauw met witte streep: naar afstandsbedieningsdraad van andere apparatuur of antenne met circuit indien aanwezig (200 mA max.)
⑤ Oranje met witte streep: naar de schakelaar voor de autoverlichting
⑥ Bruin: naar het mobiele-telefoonsysteem (Lees voor meer informatie de instructies die bij de mobiele telefoon worden geleverd.)
⑦ Andere: naar de speakers

2 Sluit de antenne aan.

3 Verbind de draadbundel daarna met het apparaat.

Opmerking: Als uw voertuig niet beschikt over een aansluitklem, moet u de zekering verplaatsen van stand 1 (beginstand) naar stand 2 en moet u de rode draad (A7) met de pluspool (+) van de accu verbinden.
• In dit geval wordt de gele draad (A4) niet gebruikt.

JVC CD changer/DAB tuner or another external component
CD-Wechsler von JVC/DAB-Tuner oder ein andere externe Komponente
Changeur CD JVC/Tuner DAB ou autre appareil extérieur
JVC CD-wisselaar/DAB-tuner of een ander extern apparaat

We recommend you to connect the JVC MP3-compatible CD changer. You can also connect other CH-X series CD changers (except CH-X99 and CH-X100).
• You cannot use the KD-MK series CD changers with this unit.
You can also use an external component such as a portable MD player by connecting the Line Input Adapter KS-U57 (not supplied). (See diagram **B**.)
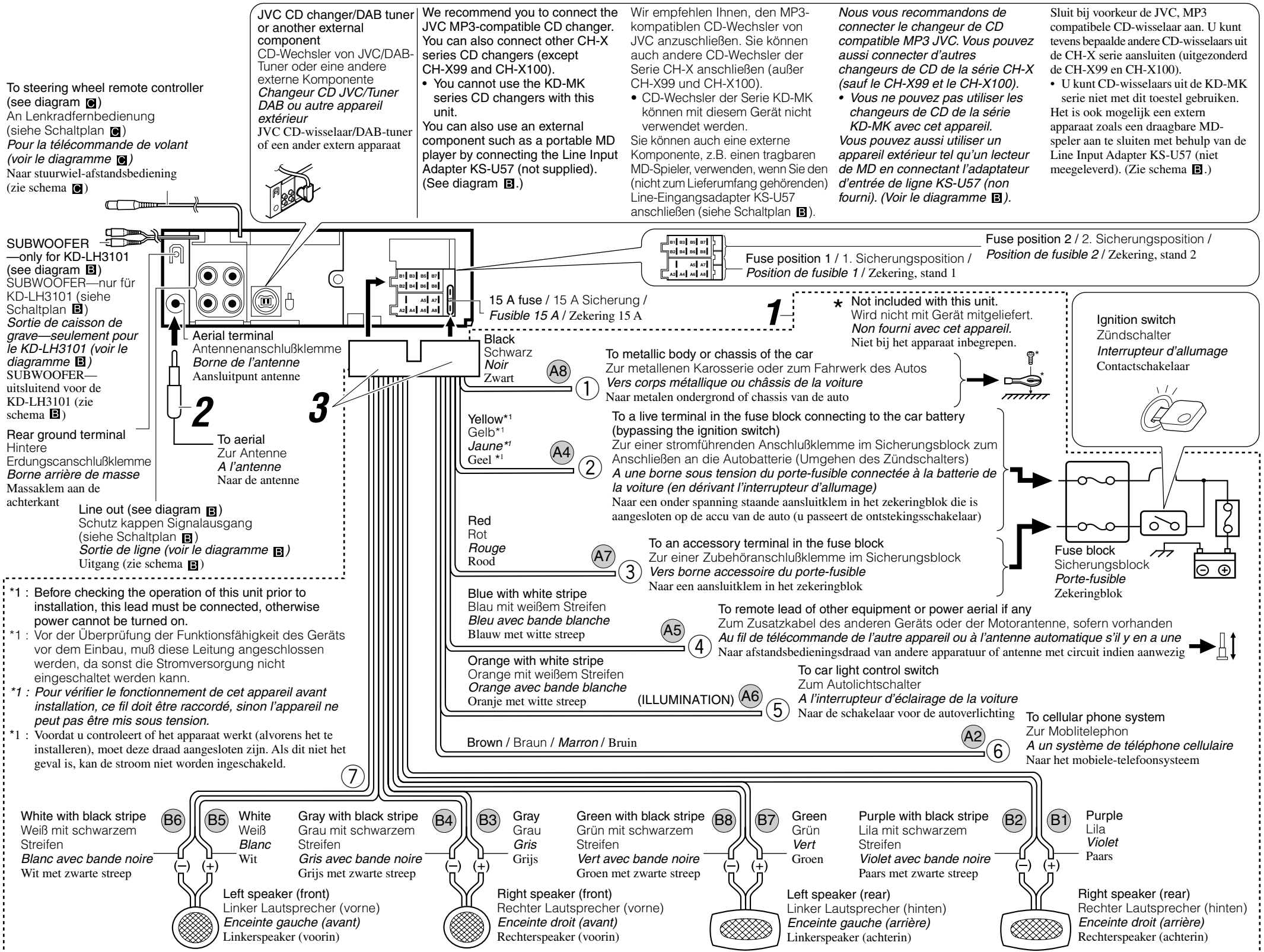
Wir empfehlen Ihnen, den MP3-kompatiblen CD-Wechsler von JVC anzuschließen. Sie können auch andere CD-Wechsler der Serie CH-X anschließen (außer CH-X99 und CH-X100).
• CD-Wechsler der Serie KD-MK können mit diesem Gerät nicht verwendet werden.
Sie können auch eine externe Komponente, z.B. einen tragbaren MD-Spieler, verwenden, wenn Sie den (nicht zum Lieferumfang gehörenden) Line-Eingangsadapter KS-U57 anschließen (siehe Schaltplan **B**.)

Nous vous recommandons de connecter le changeur de CD compatible MP3 JVC. Vous pouvez aussi connecter d'autres changeurs de CD de la série CH-X (sauf le CH-X99 et le CH-X100).
• *Vous ne pouvez pas utiliser les changeurs de CD de la série KD-MK avec cet appareil.*
*Vous pouvez aussi utiliser un appareil extérieur tel qu'un lecteur de MD en connectant l'adaptateur d'entrée de ligne KS-U57 (non fourni). (Voir le diagramme **B**).*

Sluit bij voorkeur de JVC, MP3 compatibele CD-wisselaar aan. U kunt tevens bepaalde andere CD-wisselaars uit de CH-X serie aansluiten (uitgezonderd de CH-X99 en CH-X100).
• U kunt CD-wisselaars uit de KD-MK serie niet met dit toestel gebruiken.
Het is ook mogelijk een extern apparaat zoals een draagbare MD-speler aan te sluiten met behulp van de Line Input Adapter KS-U57 (niet meegeleverd). (Zie schema **B**.)

To steering wheel remote controller (see diagram **C**)
An Lenkradfernbedienung (siehe Schaltplan **C**)
*Pour la télécommande de volant (voir le diagramme **C**)*
Naar stuurwiel-afstandsbediening (zie schema **C**)

SUBWOOFER —only for KD-LH3101 (see diagram **B**)
SUBWOOFER—nur für KD-LH3101 (siehe Schaltplan **B**)
*Sortie de caisson de grave—seulement pour le KD-LH3101 (voir le diagramme **B**)*
SUBWOOFER— uitsluitend voor de KD-LH3101 (zie schema **B**)

Rear ground terminal
Hintere Erdungscanschlußklemme
Borne arrière de masse
Massaklem aan de achterkant

Line out (see diagram **B**)
Schutz kappen Signalausgang (siehe Schaltplan **B**)
*Sortie de ligne (voir le diagramme **B**)*
Uitgang (zie schema **B**)

Aerial terminal
Antennenanschlußklemme
Borne de l'antenne
Aansluitpunt antenne

To aerial
Zur Antenne
A l'antenne
Naar de antenne

15 A fuse / 15 A Sicherung / *Fusible 15 A* / Zekering 15 A

Fuse position 1 / 1. Sicherungsposition / *Position de fusible 1* / Zekering, stand 1

Fuse position 2 / 2. Sicherungsposition / *Position de fusible 2* / Zekering, stand 2

★ Not included with this unit.
Wird nicht mit Gerät mitgeliefert.
Non fourni avec cet appareil.
Niet bij het apparaat inbegrepen.

Ignition switch
Zündschalter
Interrupteur d'allumage
Contactschakelaar

Black / Schwarz / *Noir* / Zwart (A8) ①
To metallic body or chassis of the car
Zur metallenen Karosserie oder zum Fahrwerk des Autos
Vers corps métallique ou châssis de la voiture
Naar metalen ondergrond of chassis van de auto

Yellow*1 / Gelb*1 / *Jaune*1 / Geel *1 (A4) ②
To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch)
Zu einer stromführenden Anschlußklemme im Sicherungsblock zum Anschließen an die Autobatterie (Umgehen des Zündschalters)
A une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage)
Naar een onder spanning staande aansluitklem in het zekeringblok die is aangesloten op de accu van de auto (u passeert de ontstekingsschakelaar)

Red / Rot / *Rouge* / Rood (A7) ③
To an accessory terminal in the fuse block
Zur einer Zubehöranschlußklemme im Sicherungsblock
Vers borne accessoire du porte-fusible
Naar een aansluitklem in het zekeringblok

Blue with white stripe / Blau mit weißem Streifen / *Bleu avec bande blanche* / Blauw met witte streep (A5) ④
To remote lead of other equipment or power aerial if any
Zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une
Naar afstandsbedieningsdraad van andere apparatuur of antenne met circuit indien aanwezig

Orange with white stripe / Orange mit weißem Streifen / *Orange avec bande blanche* / Oranje met witte streep (ILLUMINATION) (A6) ⑤
To car light control switch
Zum Autolichtschalter
A l'interrupteur d'éclairage de la voiture
Naar de schakelaar voor de autoverlichting

Brown / Braun / *Marron* / Bruin (A2) ⑥
To cellular phone system
Zur Mobiltelephon
A un système de téléphone cellulaire
Naar het mobiele-telefoonsysteem

Fuse block
Sicherungsblock
Porte-fusible
Zekeringblok

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*1 : Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*1 : Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.
*1 : Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.
*1 : Voordat u controleert of het apparaat werkt (alvorens het te installeren), moet deze draad aangesloten zijn. Als dit niet het geval is, kan de stroom niet worden ingeschakeld.

White with black stripe (B6) / Weiß mit schwarzem Streifen / *Blanc avec bande noire* / Wit met zwarte streep (−)

White (B5) / Weiß / *Blanc* / Wit (+)
Left speaker (front)
Linker Lautsprecher (vorne)
Enceinte gauche (avant)
Linkerspeaker (voorin)

Gray with black stripe (B4) / Grau mit schwarzem Streifen / *Gris avec bande noire* / Grijs met zwarte streep (−)

Gray (B3) / Grau / *Gris* / Grijs (+)
Right speaker (front)
Rechter Lautsprecher (vorne)
Enceinte droit (avant)
Rechterspeaker (voorin)

Green with black stripe (B8) / Grün mit schwarzem Streifen / *Vert avec bande noire* / Groen met zwarte streep (−)

Green (B7) / Grün / *Vert* / Groen (+)
Left speaker (rear)
Linker Lautsprecher (hinten)
Enceinte gauche (arrière)
Linkerspeaker (achterin)

Purple with black stripe (B2) / Lila mit schwarzem Streifen / *Violet avec bande noire* / Paars met zwarte streep (−)

Purple (B1) / Lila / *Violet* / Paars (+)
Right speaker (rear)
Rechter Lautsprecher (hinten)
Enceinte droit (arrière)
Rechterspeaker (achterin)

PRECAUTIONS on power supply and speaker connections:

• **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
• Connect the black lead (ground), yellow lead (to car battery, constant 12 V), and red lead (to an accessory terminal) correctly.
• BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
– **If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below,** DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged. Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
– **If the speaker wiring in your car is as illustrated in Fig. 3,** you can connect the unit using the original speaker wiring in your car.
– If you are not sure of the speaker wiring of your car, consult your car dealer.
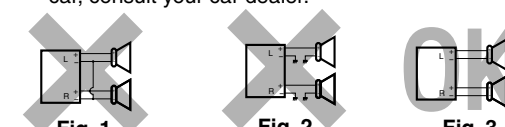
VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:

• **Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.**
• Die schwarze Leitung (Erdung), die gelbe Leitung (zur Autobatterie, konstant 12 V) und die rote Leitung (zur Zubehöranschlußklemme) richtig anschließen.
• VOR dem Anschließen der Lautsprecherleitungen des Spannungsversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.
– **Ist die Lautsprecherverdrahtung wie unten in „Fig. 1" und „Fig. 2" abgebildet,** das Gerät NICHT mit der Originalverdrahtung der Lautsprecher anschließen, da sonst das Gerät schwer beschädigt wird. Die Lautsprecherverdrahtung erneuern, so daß Sie das Gerät an den Lautsprechern wie in „Fig. 3" abgebildet anschließen können.
– **Ist die Lautsprecherverdrahtung in Ihrem Auto wie in „Fig. 3" abgebildet,** können Sie das Gerät mit der Originalverdrahtung der Lautsprecher in Ihrem Auto anschließen.
– Sind Sie sich über die Lautsprecherverdrahtung in Ihrem Auto nicht sicher, wenden Sie sich an Ihren Autohändler.

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

• **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
• *Connectez correctement le fil noir (à la masse), le fil jaune (à la batterie de la voiture,12 V constant) et le fil rouge (à la prise accessoire).*
• *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*
– *Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 1 ou la Fig. 2 ci-dessous, NE CONNECTEZ PAS l'appareil en utilisacant ce câblage original des enceintes. Si vous le faites, l'appareil sera sérieusement endommagé. Recommencez le câblage des enceintes de façon que vous puissiez connecter l'appareil aux enceintes comme montré sur la Fig. 3.*
– *Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 3, vous pouvez connecter l'appareil en utilisant ce câblage original d'enceintes pour votre voiture.*
– *Si vous n'êtes pas sûrs du câblage d'enceintes de votre voiture, consulter le concessionnaire de votre voiture.*

VOORZORGSMAATREGELEN bij het verbinden van de stroomkabeldraad met de speakers:

• **Verbind de speakerdraden van de stroomkabel NIET met de accu van de auto; als u dit wel doet, zal het apparaat ernstige schade oplopen.**
• Sluit de zwarte draad (aarde), de gele draad (naar de accu van de auto, constant 12 V) en de rode draad (naar de aansluitklem van de accessoire) op de juiste wijze aan.
• VOORDAT u de speakerdraden van de stroomkabel met de speakers verbindt, moet u de bedrading van de speakers in uw auto controleren.
– **Als de bedrading van de speakers eruitziet zoals hieronder staat afgebeeld in Fig. 1 en Fig. 2,** mag het apparaat NIET worden aangesloten met behulp van deze oorspronkelijke speakerbedrading. Als u dat wel doet, zal het apparaat ernstige schade oplopen. Pas de bedrading van de speakers aan, zodat u het apparaat met de speakers kunt verbinden, zoals staat afgebeeld in Fig. 3.
– **Als de bedrading van de speakers eruitziet zoals staat afgebeeld in Fig. 3,** kunt u het apparaat aansluiten met behulp van de oorspronkelijke speakerbedrading in uw auto.
– Als u twijfels hebt over de speakerbedrading in uw auto, moet u contact opnemen met uw autodealer.

Fig. 1 **Fig. 2** OK **Fig. 3**

Connecting the leads / Anschließen der Leitungen / Raccordement des fils / Aansluiting van de gekleurde draden

Twist the core wires when connecting.
Die Kerndrähte beim Anschließen verdrehen.
Torsader les âmes des fils en les raccordant.
Draai de kerndraden om elkaar heen wanneer u ze wilt aansluiten.

Solder the core wires to connect them securely.
Die Kerndrähte anlöten, um sie fest anzuschließen.
Souder les âmes des fils pour les raccorder entre eux de façon sûre.
Soldeer de kerndraden zodat ze stevig vast zitten.

CAUTION / VORSICHT / PRECAUTION / LET OP!:
• To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
• Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
• *Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.*
• Om kortsluiting te voorkomen, moet u de aansluitklemmen van ONGEBRUIKTE gekleurde draden met isolatieband bedekken.
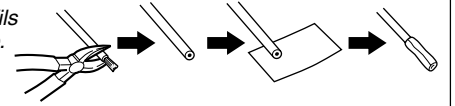
B Connections Adding Other Equipment / Anschlüsse zum Hinzufügen von anderer Ausrüstung / Raccordement pour ajouter d'autres appareils / Aansluitingen voor het toevoegen van andere apparatuur

You can connect an amplifier and other equipment to upgrade your car stereo system.
• Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
• For amplifier only:
  – Connect this unit's line-out terminals to the amplifier's line-in terminals.
  – **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of these unused leads with insulating tape, as illustrated above.)**

Sie können einen Verstärker oder ein anderes Gerät anschließen, um Ihre Autostereoanlage zu erweitern.
• Schließen Sie das Fernbedienungskabel (blau mit weißem Streifen) an das Fernbedienungskabel des anderen Geräts an, so daß es über dieses Gerät gesteuert werden kann.
• Nur für den Verstärker:
  – Die Anschlußklemmen am Ausgang dieses Gerät an den Anschlußklemmen des Eingangs des Verstärkers anschließen.
  – **Die Lautsprecher von diesem Gerät abtrennen und am Verstärker anschließen. Die Lautsprecherleitungen dieses Geräts unbenutzt lassen. (Die Anschlußklemmen dieser nicht verwendeten Leitungen mit Isolierklebeband umwickeln, siehe Abbidung oben.)**
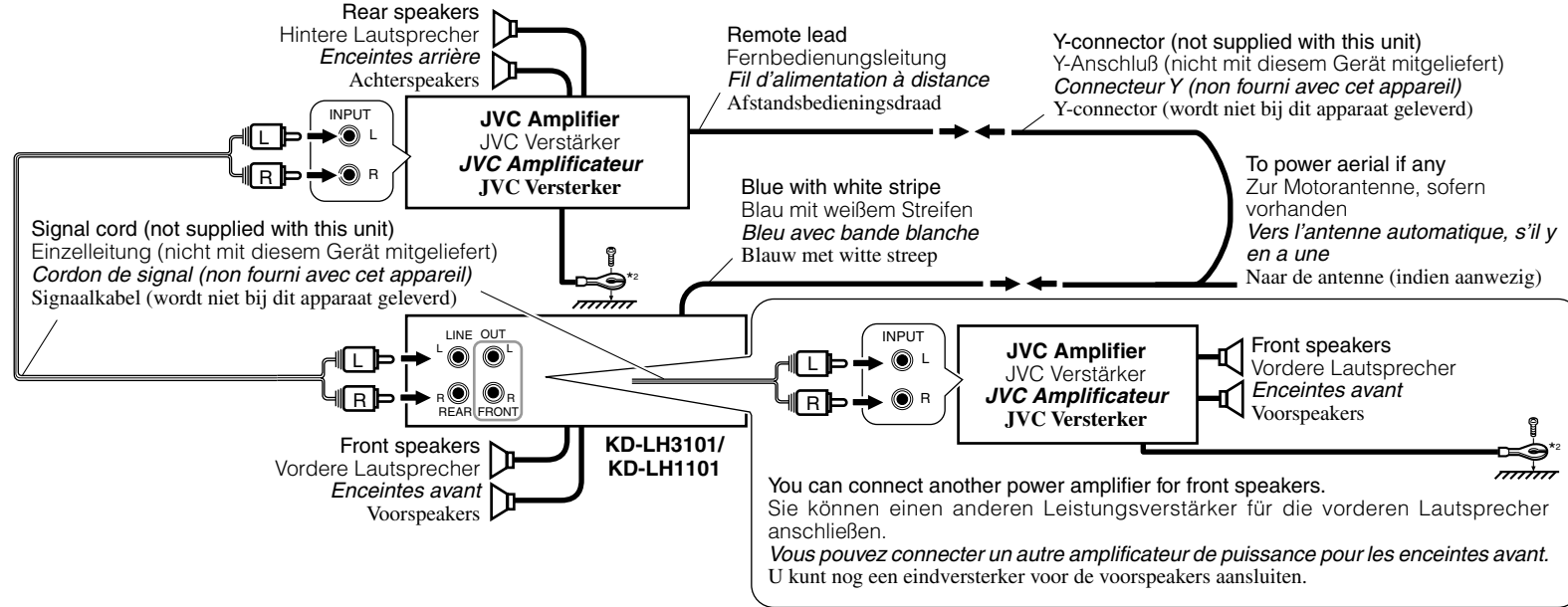
Vous pouvez connecter un amplificateur ou autre appareil pour améliorer votre système autoradio.
• *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
• *Pour l'amplificateur seulement:*
  – *Raccorder les bornes de sortie ligne de cet appareil aux bornes d'entrée ligne de l'amplificateur.*
  – *Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés. (Recouvrir les extrémités de ces fils inutilisés avec de la bande isolante comme montré ci-dessus.)*

Het is mogelijk om uw autostereosysteem uit te breiden met een versterker of andere apparatuur.
• Verbind de afstandsbedieningsdraad (blauw met witte streep) met de afstandsbedieningsdraad van andere apparatuur zodat deze op afstand via dit apparaat kan worden bediend.
• Alleen voor een versterker:
  – Verbind de uitgang van het apparaat met de ingang van de versterker.
  – **Koppel de speakers van dit apparaat los en verbind ze aan de versterker. Gebruik de speakerdraden van dit apparaat niet. (Plak de aansluitklemmen van deze speakerdraden met isolatieband af zoals hierboven is afgebeeld.)**

Amplifier / Verstärker / Amplificateur / Versterker

Rear speakers
Hintere Lautsprecher
Enceintes arrière
Achterspeakers

INPUT

JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker

Remote lead
Fernbedienungsleitung
Fil d'alimentation à distance
Afstandsbedieningsdraad

Y-connector (not supplied with this unit)
Y-Anschluß (nicht mit diesem Gerät mitgeliefert)
Connecteur Y (non fourni avec cet appareil)
Y-connector (wordt niet bij dit apparaat geleverd)

Blue with white stripe
Blau mit weißem Streifen
Bleu avec bande blanche
Blauw met witte streep

To power aerial if any
Zur Motorantenne, sofern vorhanden
Vers l'antenne automatique, s'il y en a une
Naar de antenne (indien aanwezig)

Signal cord (not supplied with this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)

LINE OUT

JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker

INPUT

Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers

Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers

KD-LH3101/ KD-LH1101

You can connect another power amplifier for front speakers.
Sie können einen anderen Leistungsverstärker für die vorderen Lautsprecher anschließen.
Vous pouvez connecter un autre amplificateur de puissance pour les enceintes avant.
U kunt nog een eindversterker voor de voorspeakers aansluiten.

*2 : Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*2 : Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kntaktstelle darf nicht lackiert sein (sollte die Kontaktstelle lackiert sein, entfernen Sie den Lack der Kontaktstelle, bevor Sie den Leiter befestigen). Wenn der Erdungsleiter nicht ordnungsgemäß angeschlossen wird, kann dieses Gerät beschädigt werden.
*2 : *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*
*2 : Bevestig de aardedraad goed met een metalen onderdeel van het chassis van de auto—bevestig op een niet-gelakt gedeelte (indien gelakt, schuur dan af alvorens de draad te bevestigen). Het toestel kan worden beschadigd indien de aardedraad niet goed is aangesloten.

CD changer and DAB tuner / CD-Wechsler und DAB-Tuner / Changeur CD et tuner DAB / CD-wisselaar en DAB-tuner

You can connect a JVC CD changer and/or a JVC DAB (Digital Audio Broadcasting) tuner.
• For their connections, refer to the instructions supplied with them.

Sie können einen CD-Wechsler und/oder einen DAB-Tuner (Tuner für digitalen Rundfunk) von JVC anschließen.
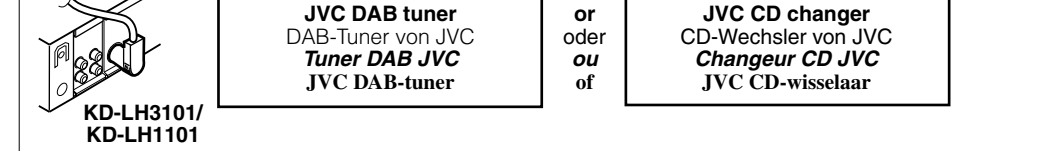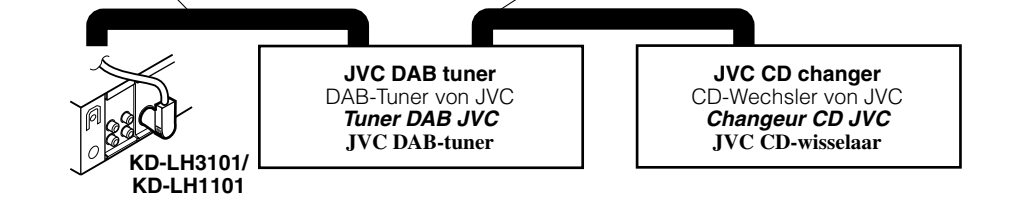• Weitere Informationen über den Anschluß können Sie der Bedienungscanleitung entnehmen, die dem jeweiligen Gerät beiliegt.

Vous pouvez connecter un changeur CD JVC et/ou un tuner DAB (Digital Audio Broadcasting) JVC.
• *Pour leurs connexions, référez-vous aux modes d'emploi qui les accompagnent.*

Het is mogelijk een JVC CD-wisselaar en/of JVC DAB-tuner (Digital Audio Broadcasting) aan te sluiten.
• Zie de instructies van deze apparaten voor meer informatie over het tot stand brengen van deze aansluiting.

Connecting cord supplied with your DAB tuner
Verbindungskabel, das zum Lieferumfang des DAB-Tuners gehört
Cordon de connexion fourni avec votre tuner DAB
Verbindingskabel die met de DAB-tuner wordt meegeleverd

Connecting cord supplied with your CD changer
Verbindungskabel, das zum Lieferumfang des CD-Wechsler gehört
Cordon de connexion fourni avec votre changeur CD
Verbindingskabel die met de CD-wisselaar wordt meegeleverd

Connecting cord supplied with your DAB tuner or CD changer
Verbindungskabel, das zum Lieferumfang des DAB-Tuners oder CD-Wechslers gehört
Cordon de connexion fourni avec votre tuner DAB ou changeur CD
Verbindingskabel die met de DAB-tuner of CD-wisselaar wordt meegeleverd

JVC DAB tuner
DAB-Tuner von JVC
Tuner DAB JVC
JVC DAB-tuner

JVC CD changer
CD-Wechsler von JVC
Changeur CD JVC
JVC CD-wisselaar

KD-LH3101/ KD-LH1101

or
oder
ou
of

JVC DAB tuner
DAB-Tuner von JVC
Tuner DAB JVC
JVC DAB-tuner

JVC CD changer
CD-Wechsler von JVC
Changeur CD JVC
JVC CD-wisselaar

KD-LH3101/ KD-LH1101

• You can connect both components in series as illustrated above.
• Es ist möglich, beide Komponenten in einer Serienschaltung entsprechend der obigen Darstellung anzuschließen.
• *Vous pouvez connecter les deux appareils en série comme montré ci-dessus.*
• Beide apparaten zijn volgens bovenstaande illustratie in serie aan te sluiten.

CAUTION / VORSICHT / PRECAUTION / LET OP!:
• Before connecting the CD changer and/or the DAB tuner, make sure that the unit is turned off.
• Bevor Sie den CD-Wechsler und/oder den DAB-Tuner anschließen, vergewissern Sie sich, daß das Gerät ausgeschaltet ist.
• *Avant de connecter le changeur CD et/ou le tuner DAB, s'assurer que l'unité est éteinte.*
• Zorg ervoor dat het apparaat is uitgeschakeld alvorens u de en/of DAB-tuner CD-wisselaar aansluit.

Subwoofer / Subwoofer / Caisson de grave / Subwoofer

Only for KD-LH3101 / Nur für KD-LH3101 / Sortie de caisson de grave KD-LH3101 / Uitsluitend voor de KD-LH3101

You can connect a subwoofer through an amplifier to reinforce the bass.
• For their connections, refer to the instructions supplied with your subwoofer.

Sie können einen Subwoofer über einen Verstärker anschließen, um den Bass zu verstärken.
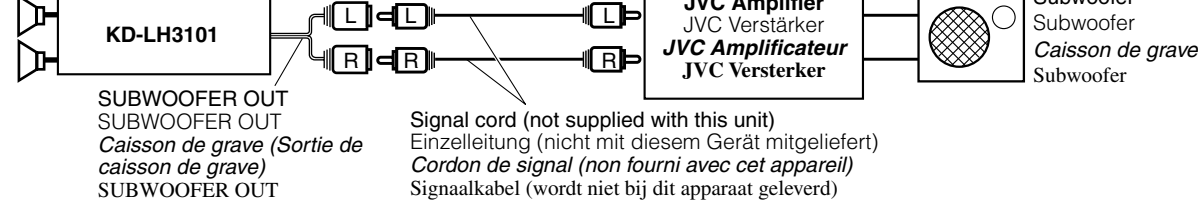• Sehen Sie die mit Ihrem Subwoofer mitgelieferten Anweisungen bzgl. der Anschlüsse.

Vous pouvez connecter un caisson de grave par un amplificateur pour renforcer les graves.
• *Pour la connexion, référez-vous aux instructions fournies avec le caisson de grave.*

U kunt een subwoofer via een versterker aansluiten om de weergave van de lage tonen te versterken.
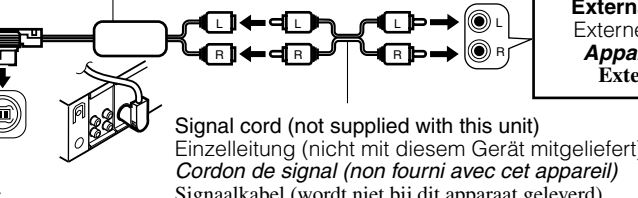• Zie de bij de subwoofer geleverde aanwijzingen voor het verbinden.

KD-LH3101

JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker

Subwoofer
Subwoofer
Caisson de grave
Subwoofer

SUBWOOFER OUT
SUBWOOFER OUT
Caisson de grave (Sortie de caisson de grave)
SUBWOOFER OUT

Signal cord (not supplied with this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)

External Component / Externe Komponente / Appareil extérieur / Extern apparaat

Line Input Adapter KS-U57 (not supplied with this unit)
Line-Eingangsadapter KS-U57 (nicht mit diesem Gerät mitgeliefert)
Adaptateur d'entrée de ligne KS-U57 (non fourni avec cet appareil)
Line Input Adapter KS-U57 (wordt niet bij dit apparaat geleverd)

KD-LH3101/ KD-LH1101

External component
Externe Komponente
Appareil extérieur
Extern apparaat

CD changer jack
Buchse CD-Wechsler
Prise du changeur CD
Aansluiting voor CD-wisselaar

Signal cord (not supplied with this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)

See the INSTRUCTIONS (separate volume) for how to use the external component with this unit.
Informationen zur Verwendung der externen Komponente mit diesem Gerät finden Sie in den BEDIENUNGSANLEITUNG (separates Dokument).
Référez-vous aux "MANUEL D'INSTRUCTIONS" (manuel séparé) pour savoir comment utiliser l'appareil extérieur avec cet appareil.
Zie de GEBRUIKSAANWIJZING (apart boekje) voor details aangaande het gebruik van het externe component met dit toestel.

C Connecting to the steering wheel remote controller / Anschluß an die Lenkradfernbedienung / Connexion de la télécommande de volant / Verbinden met de stuurwiel-afstandsbediening

If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.
Wenn Ihr Fahrzeug mit einer Lenkradferndienung ausgestattet ist, können Sie damit diesen Receiver steuern. Hierfür ist ein für Ihr Fahrzeug passender Radio-Lenkrad-Fernbedienungsadaption von JVC (nicht im Lieferumfang enthalten) erforderlich. Für weitere Einzelheiten wenden Sie sich an Ihren JVC Autoradiohändler.
Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails.
Indien uw auto een stuurwiel-afstandsbediening (niet bijgeleverd) heeft, kunt u deze receiver met die afstandsbediening bedienen. Hiervoor heeft u echter een JVC adapter nodig die geschikt is voor de stuurwiel-afstandsbediening in uw auto. Raadpleeg uw JVC car audio dealer voor details.

Steering wheel remote input
Eingang für Lenkradfernbedienung
Entrée de la télécommande de volant
Ingang stuurwiel-afstandsbediening

OE remote adapter (not supplied)
Radio-Lenkrad-Fernbedienungsadaption (nicht im Lieferumfang enthalten)
Adaptateur pour télécommande au volant (non fourni)
Adapter voor stuurwiel-afstandsbediening (niet bijgeleverd)

KD-LH3101/ KD-LH1101

Steering wheel remote controller (equipped in the car)
Lenkradfernbedienung (im Fahrzeug installiert)
Télécommande de volant (installée dans la voiture)
Stuurwiel-afstandsbediening (in de auto)